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THE INDUS SCRIPT

Texts, Concordance and Tables

MEMOIRS OF THE ARCHAEOLOGICAL SURVEY OF INDIA No. 77

THE INDUS SCRIPT

Texts, Concordance and Tables

IRAVATHAM MAHADEVAN

62961

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CONTENTS

PREFACE vii

INTRODUCTION 3

MAP 29

CODES 30

SIGN LIST 32

TEXTS IN THE INDUS SCRIPT 39

CONCORDANCE TO THE TEXTS 163

TABLES

I Frequency and Positional Distribution of Signs 717
II Frequency of Pairwise Combinations 724
III Distribution of Signs by Sites 746
IV Distribution of Signs by Object Types 753
V Distribution of Signs by Field Symbols 760
VI Distribution of Direction of Writing by Site 776
VII Distribution of Direction of Writing by Object Types 776
VIII Distribution of Field Symbols by Sites 777
IX Distribution of Field Symbols by Object Types 780

APPENDICES

I List of Sign Variants 785
II List of Field Symbols 793
III Illustrations of Field Symbols 799
IV List of Sources for the Texts 814
V List of Inscribed Objects 816

PREFACE

I was awarded a Jawaharlal Nehru Fellowship in 1970 for a study of the Indus Script. I utilised the fellowship for compiling a corpus of texts in the Indus Script, a concordance to the texts and the basic statistics relating to the script, to serve as source material for further research. The results of the work are presented in this volume. I am grateful to the Trustees of the Jawaharlal Nehru Memorial Fund for the award of the fellowship which has enabled me to work wholetime for two years on this fascinating project. It has taken me nearly seven years to complete the work, both due to the complexity of the subject and my own limitations as a part-time worker in the field.

The *Texts, Concordance* and *Tables* have been compiled by the use of computer techniques developed by the Computer Group and the National Centre for Software Development and Computing Techniques (NCSDCT), Tata Institute of Fundamental Research (TIFR), Bombay. The book has been printed by computer-aided photo-composing techniques also developed by the NCSDCT at the TIFR. The computer programmes for compiling the *Texts, Concordance* and *Tables* were designed and executed by Shrimati Mythili Rangarao. The programmes for adapting the software package developed at the NCSDCT to the special requirements of printing this volume in characters of the Indus Script by photo-composing were designed and executed by Shri N.Soundararajan. I am greatly beholden to Prof. R.Narasimhan, Head of the Computer Group, and Director, NCSDCT, at the TIFR for generously providing me with computer time, programming assistance and technical advice at every stage of the work.

I also acknowledge gratefully the facilities generously extended to me for preliminary data processing at the Computer Centres in the Fundamental Engineering Research Establishment, College of Engineering, Guindy, Madras, the Government Data Processing Centre, Madras, and the Jawaharlal Nehru University, New Delhi.

Almost the entire source material from which this volume has been compiled and most of the photographs for the Plates were supplied by the Archaeological Survey of India which holds the copyright. I am deeply grateful to Shri B.B.Lal and Shri M.N.Deshpande, the former and the present Directors-General of the Archaeological Survey of India, for giving me access to original objects and unpublished photographs in the collections of the Survey. I am particularly indebted to Shri B.K.Thapar, Shri S.R.Rao and Shri W.H.Siddeque for permitting me to copy the unpublished material excavated by them at Kalibangan and Lothal. This generous gesture in the best traditions of academic scholarship will be appreciated by all students of the Indus Script hungering for more textual material. My thanks are also due to Shri J.P.Joshi, Shri B.M.Pande and Shri J.G.Mathur of the Archaeological Survey of India for assistance in my search for source material. I am grateful to the Director-General for accepting this work for publication in the series of the Memoirs of the Archaeological Survey of India.

I am thankful to the authorities of the National Museum, New Delhi, the Indian Museum, Calcutta, the Prince of Wales Museum, Bombay, Baroda Museum, Government

Museum, Madras, the Department of Archaeology, Haryana, the British Museum, London, and the Louvre, Paris, for permission to inspect and copy the original inscribed objects in their collections. I have also made use of photographs of unpublished objects by the courtesy of the institutions mentioned above, the Victoria & Albert Museum, London, and the Ashmolean Museum, Oxford. Individual credits have been given in the List of Inscribed Objects and the Plates.

The Sign List, the List of Sign Variants and the Map were drawn up under my supervision by Shri Amarnath Sharma, Research Associate in the Indian Statistical Institute, New Delhi. Shrimati Kamala Ganesh worked as my Research Assistant during the first year of my fellowship. Miss T.Rajeswari continued as my Research Assistant throughout the project and has cheerfully borne the heavy burden of work involved in collection and compilation of data, coding and proof-reading.

I have received generous assistance and advice from many other institutions and individuals over the years for the completion of this work. I have had the benefit of long and fruitful discussions with Dr.Asko Parpola during his visits to India in 1971 and again in 1975. I must in particular mention with gratitude the assistance I have received from Prof. Romila Thapar and Prof. R.Champakalakshmi of the Jawaharlal Nehru University, New Delhi, Shri A.Subbiah of the International Association of Tamil Research and the International Institute of Tamil Studies, Madras, Dr. R.Nagaswami, Director of Archaeology, Government of Tamil Nadu, and Shri N.Mahalingam, Madras.

The Tata Press, Bombay, has done pioneering work in developing a special film font for the Indus Script characters from which this volume has been printed by computerised photo-composing techniques. Shri A.G.Duble, Graphic Artist, Tata Press, adapted the artwork to the exacting specifications required for producing the film font. I also thank Shri X.S.Desai, General Manager, and Shri A.K.Manchanda, Systems Manager, Tata Press, for the care bestowed on the production of this volume and making it, in its own way, a work of art.

I shall consider my labours amply rewarded if the volume serves the purpose of advancing research in this field and making a modest contribution to the decipherment of the Indus Script in the fullness of time.

New Delhi
Dated 31st January 1977

IRAVATHAM MAHADEVAN

Introduction

Map

Codes

Sign List

INTRODUCTION

1. SCOPE OF THE VOLUME

This book presents in one volume a corpus of texts in the Indus Script together with a concordance to the texts and a set of tables providing the basic statistics relating to the script. The work is intended to be a sourcebook providing material for further research. The problem of decipherment of the Indus Script is beyond the scope of the present work.

2. METHODS OF COMPILATION

2.1 The work was carried out in several stages. In 1970-71 a photographic card catalogue of the inscribed objects was assembled and the texts together with relevant background data were coded in a numerical form suitable for computer analysis. An experimental concordance (with a line of text as the unit) was prepared with the help of an IBM 1620 computer at the Fundamental Engineering Research Establishment in the College of Engineering, Guindy, Madras. A brief report on this preliminary work has already been published.[1] After an analysis of the results, the material was thoroughly revised and rearranged.

2.2 A critical edition of the texts, an improved concordance (with a whole text as the unit) and a set of statistical tables were prepared in 1972-73 with the help of a CDC 3600 computer at the Tata Institute of Fundamental Research (TIFR), Bombay. A third revision of the material was also carried out in 1976 at the TIFR to include unpublished texts, especially from Lothal and Kalibangan.

2.3 Work also commenced in 1973 to evolve a normalised signary of the Indus Script which would faithfully reproduce 'the neat monumental forms'[2] of the originals seen in the best seals, and at the same time be suitable for computerised printing. With the help of the concordance to the texts which was ready by 1973 and the photographic card catalogue, an elaborate exercise was undertaken to locate all the sign variants and prepare an index of occurrences for each variant. The most frequently occurring variant of a sign was chosen as its normal form which was then copied from the best available specimen. The sign variants were drawn up in another list copying from the best preserved occurrence for each variant. This was a laborious and time-consuming process which was completed in 1974. The sign list and the list of sign variants were again revised and brought uptodate in 1976 after the unpublished texts from Lothal and Kalibangan were made available.

2.4 When the work was ready for publication, the formidable problem of finding out a suitable method of printing the texts and the voluminous concordance in the Indus Script characters had to be tackled. No fonts were available for printing in this script. Reproduction by computer-controlled plotting was at first tried out, but given up due to various practical difficulties, but especially because the stylisation of characters having curves and slanted lines due to the constraint of using an X-Y drum plotter was found unacceptable.

2.5 The challenge was taken up by the National Centre for Software Development and Computing Techniques (NCSDCT) at the TIFR, Bombay, where a very much more versatile computer, the DEC 1077 system, had become operational by late 1975. The Centre had developed a software package for computer-aided photo-typesetting which can be used on an Alpha-type photo-composing machine driven by paper tape. Experiments to adapt this package for typesetting of the Indus Script characters from a film font were tried out successfully. The Tata Press, Bombay, undertook the task of preparing a special film font for the Indus Script from which the *Texts*, *Concordance* and *Tables* have been printed. The availability for the first time of a font for printing in the Indus Script characters is a valuable by-product of the present project.

3. SOURCES

3.1 The List of Sources for the Texts and the List of Inscribed Objects included as appendices provide source references to individual texts (pp. 814-29).

3.2 *Publications*

The major excavation reports on Mohenjodaro, Harappa and Chanhudaro and the publications of the Archaeological Survey of India (ASI) are the principal sources for the texts included in the present volume. Additional material reported from excavations, explorations or as stray finds are taken from widely scattered publications.

3.3 *Photographs*

The Photo Library of the Director-General, ASI at New Delhi, has a very rich collection of photographs arranged in annual series according to areas or sites. In particular, the photographic albums included in the Punjab and the Sind series have proved to be a treasure trove containing an unexpectedly large number of unpublished photographs of seals and other inscribed objects from Harappa and Mohenjodaro respectively. The unpublished objects in these albums include items even from the earlier excavations by R.D.Bannerji, Marshall and Mackay at Mohenjodaro and by Vats at Harappa. Many of the miniature tablets and the smaller sealings from Harappa, left unillustrated and tabulated by Vats as 'similar to' other items in the plates of *EH*, are found in these unpublished photographs. The albums also have photographs of most of the objects from the later excavations conducted by the Official Custodians of Mohenjodaro and Harappa after the closure of the main excavations. Only a few of these later finds from Harappa have been published in the Annual Reports of the ASI[3].

The ASI photo albums have also been of great help in checking and collating the readings of the published items. These albums often have several sets of photographs of the same objects, some taken directly, others from plasticine or plaster impressions and yet others, enlarged. In particular, the series of photographs in Sind, vols.XII-XIII (1926-28), XVIII (1928-29) and XXII (1929-31) and in Punjab, vols.XXXV to XXXVII (1926-28) are far superior in definition, clarity and detail to those appearing on the plates of *MIC*, *FEM*, and *EH*.

3.4 *Original objects*

Many of the inscribed objects, especially the miniature tablets and the smaller sealings, are too small to show much detail even in the best of photographs. It is almost impossible to photograph the inscribed copper tablets and bronze implements satisfactorily. Even in the case of the larger seals, finer details (e.g. the inner markings on the 'fish' group of signs) are often obscured by shadows cast by oblique lighting. Most of

the photographs of the seals are taken from impressions which determine the quality of the reproductions. For all these reasons, the desirability of examining the original objects themselves cannot be overemphasised. Only a part of the material excavated at Harappa and Mohenjodaro is now in India, mostly in the collections of the ASI and the National Museum, New Delhi. Stray specimens are to be found in various other museums in India and abroad and the remaining material is presumably in Pakistan which I could not visit.[4] By the courtesy of the authorities of the ASI at New Delhi and Baroda, the National Museum, New Delhi, Indian Museum, Calcutta, the Prince of Wales Museum, Bombay, Baroda Museum, Government Museum, Madras, the Department of Archaeology, Haryana, the British Museum, London, and the Louvre, Paris, I was able to inspect and copy over a thousand objects included in the present volume including several unpublished items.

3.5 *Unpublished objects from Lothal and Kalibangan*

With the generous permission given by the Director-General of Archaeology, India, and by Shri S.R.Rao, Shri B.K.Thapar and Shri W.S.Siddeque, I was able to inspect and copy the still largely unpublished inscriptions from Lothal and Kalibangan and include the texts in the present volume. These inscriptions from the 'provincial' centres of the Harappan polity show several new signs, variants and combinations, and will be of great interest to the students of the Indus Script.

3.6 *Texts compiled from original sources only*

Every text included in the volume is taken from an original source. By 'original source' is meant, either the object itself directly copied by me from a museum or its mechanical reproduction by means of a plaster cast or a photograph of the original or its impression. Wherever I could not get at an original source, I have preferred to exclude the text from the corpus rather than risk multiplying errors by copying from other copies.[5] The inscribed objects listed without illustration by Vats in *EH* as 'similar to' other items have also been excluded except where I have been able to see the original in a museum or its unpublished photograph in the ASI Photo Library. The only partial exception made to this rule is in regard to the drawings (mostly of copper tablets, bronze implements and the smaller sealings difficult to photograph) in the original publications, viz. *MIC, FEM, EH,* and *CE.* However, even in these cases I have been able to verify most of the texts from either the original objects in the museums or from unpublished photographs in the ASI Photo Library.

3.7 *Secondary sources*

The four earlier concordances listed below have been consulted for collation of readings:

1. Sign Manual by Gadd and Smith in *MIC,* vol. III, Pls. CXIX-CXXIX.
2. Sign Manual by Vats in *EH,* vol. II, Pls. CV-CXVI.
3. *The Script of Harappa and Mohenjodaro,* G.R.Hunter (1934).
4. *Materials for the Study of the Indus Script,* vol. I, *A Concordance to the Indus Inscriptions,* Seppo Koskenniemi, Asko Parpola and Simo Parpola (1973).

4. SITES

19 Harappan and 5 West Asian sites are represented in the present collection. A Map showing the location of the Harappan sites included in the volume is added (p. 29). The number of inscribed objects included in the volume from each site is given overleaf:

MAJOR HARAPPAN SITES		OTHER HARAPPAN SITES		WEST ASIAN SITES	
Mohenjodaro	1540	Alamgirpur	3	Djoka (Umma)	1
Harappa	985	Amri	2	Kish	2
Chanhudaro	66	Banawali	7	Susa	1
Lothal	165	Chandigarh	4	Telloh	2
Kalibangan	99	Desalpar	2	Ur	6
		Dholavira	1	Unknown provenance (prob. from West Asia)	5
		Jhukar	1		
		Kot Diji	1		
		Lohumjodaro	1		
		Rakhigadhi	1		
		Rojdi	2		
		Rupar	2		
		Surkotada	5		
		Tarkhanawala Dera	1		
		Unknown provenance (prob. from the Indian sub-continent)	1		

Total: 2906

5. INSCRIBED OBJECTS

5.1 The total number of Harappan objects in the photographic card catalogue assembled for the study is 3455. However, 549 objects without any inscriptions on them or those with totally missing, damaged or illegible inscriptions were excluded; the remaining 2906 inscribed objects with legible or partly legible inscriptions provide the corpus of texts in the present volume. An inscribed object can have, by definition, only one text consisting of one or more lines, inscribed on one or more sides of the object. Each inscribed object is given a reference number in four digits, which serves also as the number of the text inscribed on it. See Code 1 for arrangement of Text numbers (p. 30). The List of Inscribed Objects (pp. 816-29) contains full particulars of the texts included in the volume.

5.2 *Unpublished inscribed objects*

634 texts, constituting more than a fifth of the total number included in the volume, have been taken from unpublished objects.[6] The break-up of this number according to sites is given below:

Mohenjodaro	225	Lothal	96
Harappa	257	Kalibangan	46
Chanhudaro	1	Other sites	9
		Total	634

6. TYPES OF INSCRIBED OBJECTS

6.1 Inscriptions in the Indus Script occur on several types of objects. However, these can be grouped under three basic types from the point of view of a study of the writings on them:

(i) *Seals* with texts deeply engraved on them in *intaglio* in the reversed direction[7],

(ii) *Sealings* which are positive impressions in relief made by seals or special moulds on impressible material like clay, faience or metal, and

(iii) *Other inscribed objects* which carry thinly incised inscriptions meant for direct reading. These objects include miniature stone, terracotta or faience tablets, pottery (incised before or after firing or sometimes painted), copper tablets, bronze implements, ivory or bone rods and other miscellaneous objects.

While seals and sealings have not been classified further, the other inscribed objects have been distinguished as their types may hold a clue to the kind of writing which appears on them. See Code 2 for object types (p. 30).

6.2 The distribution of inscribed objects according to site and type is shown below:

SITES	OBJECT TYPES*								TOTAL
	1	2	3	4	5	6	7	9	
Mohenjodaro	1232	119		13	135	5	28	8	1540
Harappa	350	288	272	64		3	1	7	985
Chanhudaro	58	3		4		1			66
Lothal	89	75		1					165
Kalibangan	56	21		20		2			99
Other sites	13	4		17					34
West Asian Finds	16	1							17
TOTAL	1814	511	272	119	135	11	29	15	2906

*Note: The Type codes represent: (1) seals, (2) sealings, (3) miniature stone, terracotta or faience tablets, (4) pottery graffiti, (5) copper tablets, (6) bronze implements, (7) ivory or bone rods and (9) miscellaneous inscribed objects. Cf. note 2 at p. 31 for details of miscellaneous objects.

7. SIDES OF INSCRIBED OBJECTS

7.1 Each distinct surface of an object bearing an inscription or a pictorial motif (termed a 'field symbol') is regarded as a 'side' of the object. Copper tablets from Mohenjodaro, and the miniature tablets and the smaller sealings from Harappa are generally found inscribed on both the flat faces. Miniature tablets also occur in the shape of prisms with three inscribed sides (e.g. 4576), or as bars (rectangular in section) with four inscribed sides (e.g. 5471). Cube sealings (2808 and 2857) have the maximum of six inscribed sides. Sometimes seals are found inscribed not only on one or both the flat faces but also on the edges (e.g. 2405) or even on the boss at the back of the stamp seals (as in 1018, 2626, and 5056). Each such inscribed surface is regarded as a 'side' of the inscribed object in question. In the case of irregular

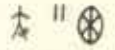
lumps of clay with multiple and sometimes overlapping seal impressions on them (e.g. 9701), each such impression is counted as a 'side' of the sealing. Graffiti on different parts of the same pottery (e.g. 2929 and 2930) are taken as occurring on different 'sides' of the object in question.

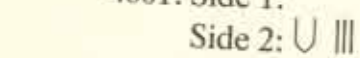
7.2 The inscribed sides of each object are serially numbered, blank sides not being counted. As a matter of convention, sides with inscriptions are numbered before the other sides of the same object without inscriptions but featuring field symbols. A distinction has been made for purposes of analysis, between the *only* inscribed side and the *first* of more than one inscribed side of an object. See Code 3 for Side numbers (p. 30).

7.3 The serial numbering of sides of objects having more than one inscribed side should be regarded as provisional in the present state of our knowledge. However, the random side order of the original publications is not followed.[8] The following criteria have been kept in view while fixing the side order of the lines of text:

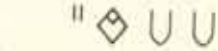
(a) Lines of text appearing on different sides of an object may occur as a single line on another object. In such cases the side order is determined with certainty, assuming of course, that the direction of writing is known. For example, the single-line text in 4340 occurs as two lines on different sides of 4601 enabling us to fix the side order:

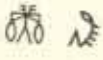
4340:

4601: Side 1: 

Side 2: 

(b) Frequently occurring terminal signs and sign combinations at the beginning or the ending of single lines provide clues to the real order of lines having these signs in similar positions. Study, for example, the two sides of 1475 (illustrated in *MIC* 475 and 476):

1475: Side 1 (*MIC* 476): 

Side 2 (*MIC* 475): 

It will be seen from the *Concordance* that is the most frequent initial or quasi-initial sign combination in the *Texts*, that the combination occurs nine times in single-line texts and that the position of is mostly final. Hence the real side order is as indicated above and not as in *MIC*. Even when lines of text on different sides are not connected by evidence of sequence, lines beginning with initial signs are numbered before other lines ending with final signs on grounds of probability.

(c) In the absence of any evidence to the contrary, the side order given in the source publications is generally followed.

8. FIELD SYMBOLS

8.1 A pictorial representation or conventional motif (other than the signs of the Indus Script) occurring on an inscribed object is termed a 'field symbol'. See Code 4 for field symbol codes (p. 30). The List of Field Symbols gives the description of each field symbol and its frequency (pp. 793-98). The field symbols are also illustrated in Plates I to VII (pp. 799-813).

8.2 Each side of an inscribed object can have, by definition, only one field symbol (comprising all the pictorial representations occurring on that side) or none. Different sides of an inscribed object may feature different field symbols with or without accompanying inscriptions. Where the inscribed object is itself in a symbolic shape (e.g. hare, fish, tortoise, pipal leaf etc.). such shape is treated as a 'field symbol' for each of the sides inscribed with text. In such cases, other field symbols occurring on sides without texts are coded as usual.

8.3 The vast majority of field symbols depict animals occupying the centre of the field and generally facing right. (The orientation of field symbols appearing on seals is assumed to be that on the impressions of the seals.) The inscriptions are generally placed in the upper register above the animal and the lines run (with a few exceptions) from the head of the animal towards its tail over the back. By far the most frequent field symbol, especially on the seals, is the so-called 'unicorn' with 1159 occurrences.[9] The most characteristic feature of the field symbol showing the unicorn is the presence of a special cult object (variously described as a 'manger' or an 'incense-burner') almost always occurring in front of the animal. The other animals depicted on the inscribed objects include bull with two long horns (otherwise resembling the 'unicorn'), humped bull, short-horned bull, buffalo, elephant, tiger, rhinoceros, different kinds of goat-antelopes (with short tail) and ox-antelopes (with long tail), hare, crocodile (*gharial*), fish, tortoise, frog, serpent, birds and different types of fabulous and composite animals. The kino tree, generally within a railing, is a common theme. The pipal tree and the pipal leaf are also depicted. The anthropomorphic figures include a horned personage seated on a pedestal (the so-called *Paśupati* figure) and a standing personage with bovine features. Among the 'scenes' depicted on the inscribed objects, the recurrent themes are: a man seated on a kino tree with a tiger standing on the ground below, a person grappling with two rearing tigers on either side, and sacrificial scenes. The *svastikā* and the dotted circle are among the more frequent conventional symbols figuring on the inscribed objects. Different kinds of geometrical patterns and cross-like motifs occupy the field on one side of many of the smaller sealings from Harappa. Simple borders in geometrical patterns with hatched lines, dotted circles etc., are seen, especially on the inscribed ivory or bone rods at one or both ends.

9. LINES OF TEXT

9.1 A line of text is continuously written matter occurring on a side of an inscribed object. The lines are generally written in a straight line, but occasionally radially inscribed on circular sides (e.g. 1478) or even on rectangular sides (e.g. 4254). The lines are serially numbered within each side of an inscribed object generally from top to bottom (with some exceptions in the case of irregularly inscribed lines). In numbering the lines of text, a distinction has been made for purposes of analysis between the *only* line of text and the *first* of more than one line of text appearing on the same side of an inscribed object. See Code 5 for Line numbers (p. 31).

9.2 The total number of texts in the corpus is 2906. The total number of lines of text is 3573. The majority of the texts are of single lines only. The maximum number of lines is 7 in a text (2405) and 3 on one side of an inscribed object (e.g. 1400). The length of a line of text varies from 1 to 14 signs. (The longest lines with 14 signs each occur in 2654 and 3107). The maximum length of a text is 26 signs in three lines (in two identical texts in 1623 and 2847). Most of the texts are however much shorter. The average length of a text is 5 signs only.

9.3 The unit of textual analysis (distributional statistics) is a line of text. There are two reasons why it is not possible to consider the whole text as a unit for this purpose. Firstly, there is no way of knowing beforehand whether different lines of an inscription appearing on the same object or even on the same side have continuity of sequence or to be regarded as separate texts. Secondly, it is not also possible to ascertain beforehand the real order (if any) of the lines of text appearing on the same object or even on the same side. It is therefore necessary to stress that the definition of a 'text' and serial numbering of the sides and the lines of text is provisional, though not arbitrary as explained earlier.

10. DIRECTION OF WRITING

10.1 The following conventions have been adopted in coding the direction of writing of lines of text:

(i) The direction of writing in respect of texts engraved on seals is assumed to be that on the impressions of the seals.

(ii) The direction of writing in all other cases is indicated as in the originals.

(iii) The lines of text in the *Texts* and the *Concordance* are arranged to be read always from right to left. The actual direction of writing of each line on the original object, or on the impression in the case of seals, is also however indicated separately by a code. See Code 6 for Direction of writing (p. 31).

10.2 One of the few generally accepted facts about the Indus Script is that the direction of the script is from right to left. Several investigators have demonstrated this from a study of the external features of the writing and, more importantly, from the evidence of sequences.[10]

10.3 External evidence for the direction of writing is provided mainly by the observation that signs at the left end of the lines undergo occasional cramping, dimunition in size, angular rotation or vertical displacement for want of space suggesting that the lines in question terminated at the left. Alekseev has collected a number of examples of this kind. B.B. Lal has demonstrated from a study of overlapping incisions on pottery graffiti that the inscriptions in question must have been incised from the right. Lal has also reiterated the argument (first advanced by Gadd and Smith) that the disposition of the radial line in 4254 along the top, left and bottom edges of the rectangular side shows an anti-clockwise (that is, right-to-left) direction.

10.4 While such external evidence is useful, and its cumulative effect not insignificant, it cannot be considered conclusive for the following reasons:

(a) There are too many exceptions not adequately noticed by the previous investigators. Some examples which might suggest a left-to-right direction are given below:

1336 : The signs at the right end are smaller and cramped;

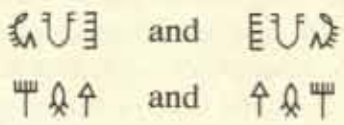
2486 : The signs get progressively smaller as one proceeds towards the right;

1126 : The first two signs at the right end are displaced and overflow to a higher register;

1093 : The signs occupy the top, right and bottom edges of the rectangular side in an apparently clockwise direction.

In fact such examples are quite common on the unicorn seals where the engraver had to accommodate the soaring head and the horn of the animal at the top right-hand corner of the field, by pushing the lines to the left or by displacing individual signs above or below the line or by reducing the size of the first one or two signs.

(b) A more fundamental difficulty arises from the fact that we know by simple observation that the lines run in either direction, though we may not be able to identify the actual direction of any particular line. Vats first drew attention to such bi-directional writing on the miniature tablets (which are not seals) and the smaller sealings at Harappa.[11] Among the examples cited by him are the following:



Hence all the external characteristics, relied upon to prove a direction, must occur (at least in theory) in the opposite direction also. For example, we may consider Lal's famous demonstration of direction of writing from overlapping incisions on pottery. We now know of several lines of pottery graffiti running in the left-to-right direction. (10 of the 85 lines of pottery graffiti with at least two legible signs included in the *Texts* run from left to right).[12] Assuming that any of these lines had overlapping incisions, Lal's criteria must indicate a left-to-right direction for the lines in question, but hardly for the script as a whole! Furthermore if two overlapping signs turn out to be a unique pairwise combination, their relative position, even when established by this most objective test, may not indicate the *normal* direction of the script, given the fact that lines of text are known to run in either direction.

10.5 What we therefore need is a universal characteristic which determines the direction of writing of the script as a whole. Such a characteristic is provided only by the sequence of signs reflecting the fixed order of speech in the language. This order remains the same whether the written text runs from right to left or from left to right or in the *boustrophedon* mode and whether we look at a seal or its impression. External evidence is necessary only to discover the fixed order of the more frequent sequences which will enable us to determine statistically the normal direction of the script.

10.6 These theoretical considerations have suggested a rather different approach in the present study. The computerisation of texts and background data has made it possible to verify the direction of writing by a comparative study of the entire known material and also to quantify the results. The study has confirmed that the general direction of writing of the Indus Script is from right to left, though exceptional cases of writing from left to right and also in the *boustrophedon* mode are known. In view of the importance of the question, the manner in which the problem was studied is described below in some detail.

10.7 *Orientation of asymmetric signs*

A visual inspection shows that the asymmetric signs (with respect to the vertical axis) occur oriented in either direction.[13] By mere counting, it can be established that for each asymmetric sign (occurring three or more times), there is a preponderant orientation. This is defined on a statistical basis as the 'normal' orientation of the sign and the opposite as the 'reversed' orientation. It can also be established that (subject to a few exceptions) all asymmetric signs in a given line of text have the same orientation, either all normal or all reversed. (cf. the first example in para. 10.4 b.) This indicates that the lines were written in

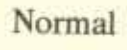
either direction and that the orientation of the asymmetric signs changed with the direction of writing of the lines, e.g.

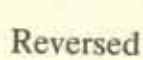
Signs with normal orientation:

Signs with reversed orientation:

10.8 *Sequence of signs*

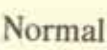
Since lines run in either direction, the sequence of sign groups will also vary. By mere counting it can be established that for any given sign group (occurring three or more times) there is a majority direction and a minority direction. The majority direction is defined statistically as the 'normal' direction of the sequence and the minority direction as the 'reversed' direction. It may be clarified that at this stage we still do not know which way (from right or left) the 'normal' direction runs, e.g.

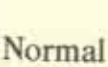
Normal sequences: 

Reversed sequences: 

10.9 *Terminal positions*

It can be ascertained by visual inspection and counting that certain signs and sign groups tend to occur mostly at the right end and certain others mostly at the left end. These are defined as the 'normal' positions of the signs and the sign groups in question and the opposite occurrences as the 'reversed' positions, e.g.

Normal right-end pairs: 

Normal left-end pairs: 

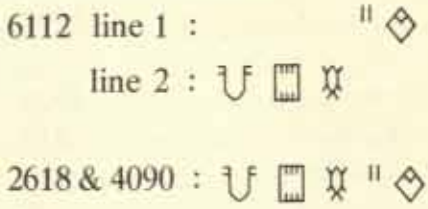
10.10 *Split sequences*

With the statistical data firmly in hand, all we require 'to break the code' for the direction are a few split sequences involving lines with frequent signs or sign groups. Split sequences are those single-line sequences which are also found split up between two adjacent lines one below the other on the same side of an inscribed object. If we *assume* that the upper line is written first and the lower line thereafter, we can establish the order of signs in the single line in question.[14] It then follows that all other lines containing this sequence have to be read in the direction of the sequence determined by this test. The longer the sequence, and the more frequent its occurrence, the better it is for proving its direction. This is a cumulative process and it is possible by means of interlocking evidence in respect of orientation of asymmetric signs, sequence of sign groups and the positional distribution of the more frequent signs and sign groups to establish conclusively the normal direction of the script. We will then be able to pick out the exceptions and study statistically the extent of variations and the environments in which such variations occur.

10.11 Split sequences are however quite rare, indicating that the Harappan scribe was normally averse to split up integral sequences except when compelled to do so by limitations of space or the disposition of field symbols. The famous examples occurring in 1052 and 1247

have been cited by almost all the investigators to demonstrate the right-to-left direction of the script. It has also been shown that the text in 1247 is written in the *boustrophedon* mode as the second line runs from left to right.

10.12 A search was made during the present study to discover examples of split sequences with at least two signs in each line (necessary to indicate direction) and without the presence of any field symbol to distort the arrangement of lines.[15] A unique example has been found in 6112 not previously noticed in this connection. In fact, this is an exceptionally lucky find as the split sequence involves the most frequent right-end pair of signs and the most frequent left-end sign known in the script. The text which occurs on a well-preserved seal from Chanhudaro, consists of five signs, two of them in the upper line and the other three in the lower line written in neat bold characters occupying the whole field. The *Concordance* shows that the identical text occurs in a single line on two other seals (2618 and 4090). The arrangement of the lines is as follows:



Assuming that in 6112, the upper line is written first and the lower line thereafter, it follows that 2618 and 4090 read from right to left.

10.13 The importance of this split sequence will be evident from the following statistics:

(a) is the most frequent pairwise combination occurring in the script. The pair occurs 291 times in the *Texts*. The most characteristic position of the pair is at the right end of the lines where it occurs 245 times. It is also the pair with the highest frequency in this position.

(b) is by far the most frequent sign in the script. It occurs 1395 times in the *Texts*. The most characteristic position of the sign is at the left end of the lines where it occurs 931 times. It is also the most frequent left-end sign in the script.

Since we know from 6112 that *the most frequent right-end pair in the script is initial and the most frequent left-end sign is final, it follows that the normal direction of the script must be from right to left.* The result is statistically conclusive even from the study of this single case of split sequence (provided of course that the assumption about the line order is valid).

10.14 The breakthrough obtained from the study of 6112 can be quickly exploited by picking out all the frequent sign combinations occurring either with in the right-end position or with in the left-end position or with both. Most of the frequent sign combinations occur in these environments and their order thus becomes known. These combinations are then used to determine the order of signs where they occur without at the right end or at the left end. A few hours of diligent search with the help of the *Concordance* is all that is required to establish with certainty the direction of writing of virtually every line in the *Texts*.

10.15 The longest split sequence occurring in the *Texts* will be of interest:

2564 line 1 :

line 2 :

2348 (single line) :

10.16 *Statistics relating to direction*

The coding of the direction of writing of the lines of text was done on the basis of the criteria established in the present study. The distribution of lines by direction of writing is shown below:

CODE	DIRECTION	NO. OF LINES	PER CENT
1	Right to left	2974	83.23
2	Left to right	235	6.57
3	Single-sign lines	190	5.32
4	Top to bottom	7	0.20
5	Symmetrical sequences (which read alike from either end)	12	0.34
9	Doubtful cases (on account of damaged or illegible portions)	155	4.34
	Total:	3573	100.00

10.17 Writing in the *boustrophedon* mode (that is, alternate lines inscribed on the same side running in either direction) is rare. The *Texts* contain nine examples only.[16] The evidence seems to suggest (cf. 1247 and 6402) that the second line runs in the reversed direction generally when the first line has an incomplete sequence.

11. SIGNS OF THE INDUS SCRIPT

11.1 *Sign List*

A Sign List of the Indus Script is included in the volume (pp. 32-35).

11.2 *Number of signs*

The Sign List records 417 signs in the Indus Script. It is however difficult to be precise about the total number of signs in an undeciphered script. The difficulty arises from the fact that in an undeciphered script, it is not easy to distinguish between independent signs and mere graphic variants, or even between the signs of the script and other symbols accompanying the inscriptions. The earlier sign lists compiled by Langdon, Gadd and Smith, and Vats did not distinguish between signs and sign variants.[17] At the other end, Hunter arranged the signs

in large groups (comprising, according to his classification, basic signs, modified signs and ligatures).[18] Dani introduced the concept of a normalised signary of the script compiled by comparing the variant signs and arriving at the normal form on the basis of the most frequent type.[19] The sign list published by the Finnish Group of scholars (as part of their concordance) is also a normalised signary which however includes a few major 'recorded' variants.[20] The criteria adopted in the present study for compiling the Sign List are briefly dealt with below.

11.3 *Signs distinguished from symbols*

The graphic elements of the script are termed 'signs' and all other pictorial representations occurring on the inscribed objects, as 'symbols'. There is generally no difficulty in distinguishing the signs occurring in a sequence as lines of text from the much larger symbols (e.g. the unicorn) occupying the field. The matter is however not free from doubt when considering the smaller figures occurring in isolation. The rule followed in such cases is not to consider an isolated graphic form as a sign of the script unless it occurs elsewhere within a sequence of signs or appears to be a modification of an attested sign. Thus the cult objects appearing before the animals (the so-called incense-burner, trough etc.) geometrical patterns, conventional symbols and motifs and many of the graffiti marks on potsherds do not qualify as signs for this reason. In case of doubt, the test of sequence can be usefully applied. Thus the isolated human forms occurring at the lower left of the field in 2420 and 6122 are signs to be added on to the lines appearing above them judging from the sequence occurring frequently within a line of text.

11.4 *Signs distinguished from graphic variants*

The Sign List included in this volume represents a normalised signary of the Indus Script. The most frequently occurring variant of a sign was chosen as its normal form which was then copied from the best available specimen of that form. The term 'sign variant' is used to denote mere graphic variations of the same sign due to the different 'hands' of the scribes, material used, the mode of writing, regional variations or evolution in course of time. A List of Sign Variants is given (pp.785-92). While it is not easy to determine what are variants in an undeciphered script, it would be meaningless to list every slight variation as a different sign. It is necessary to distinguish the graphic variants, at least in a broad manner, if we are to recognise the pattern of sign occurrences and make progress with the interpretation of the script. The criteria followed in this regard in the present study are that variant signs look similar, have the same positional and functional characteristics and the variations are either too gradual or too numerous to denote meaningful differentiation. (cf. variants of , , , and in the List of Sign Variants.) As a rule, the more complex signs tend to have more variants as the examples cited above would show. Some variants are occasionally turned through an angle upto 90 degrees (e.g. variants of , , and). Variations between rhomboid and oval forms are common (e.g. variants of , , etc.). However, the reversed orientation of asymmetrical signs sometimes occurring even in lines with a normal right-to-left direction are not counted as variants, e.g. in 1017, in 1046, in 1122 and in 1150 (*MIC* 17, 46, 122 and 150). In doubtful cases the variant forms have been kept apart and listed as independent signs. Out of 417 signs in the Sign List, 179 signs have variants totalling 641 forms recorded in the List of Sign Variants. The List cites one example of occurrence for each recorded variant. These have been copied from the best-preserved occurrence of each variant form and cover all the significant variations of signs known to occur in the *Texts*.

11.5 *Morphological classification of signs*

The Sign List is arranged according to a morphological classification in the following order:

CLASSIFICATION	SIGN NUMBERS
I Human beings (including parts of human body)	1-49
II Other living beings (and parts of their bodies)	50-85
III Strokes and 'numerals'	86-122
IV Other linear signs	123-203
V Triangular signs	204-235
VI Rectangular and rhomboid signs	236-286
VII Curves	287-327
VIII Cups	328-372
IX Ovals and circles	373-417

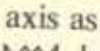
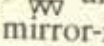
It needs to be emphasised that the classification is merely conventional and no stress is laid on any identification, even in respect of signs included in the first two categories of 'living beings'.

11.6 *Sign boundaries*

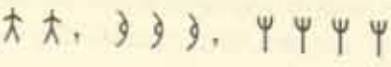
A simple rule is followed in deciding what are integral signs. A sign is separated by space from the neighbouring signs to its right and left. The exceptions to this rule are the following classes:

(a) Signs consisting of closely grouped strokes (the 'numerals' and other stroke signs with more than one line) which always occur together and whose integral character is thus obvious, e.g.

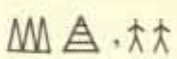
(b) 'Bracketed' signs, i.e. compound signs with generally symmetrical modifications placed on either side. These can be recognised by a simple test, viz. that such 'brackets' must be found on both sides in all occurrences and never on one side only (leaving aside damaged texts), e.g.

(c) Compounds of mirror-reflected pairs. A rather curious feature of the script is the occurrence of mirror-reflected pairs as bound signs. The mirror-reflection is generally along the horizontal axis as in  , and twice along the vertical axis as in  and . In the case of , both types of mirror-reflection occur (see List of Sign Variants) proving the integral nature of such compounds.

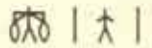
11.7 Reduplicated occurrences of the same sign are however counted as separate signs, e.g.

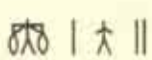


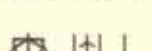
Where the originals show adjacent signs sometimes ligatured and at other times separately, these are treated always as independent signs, e.g.

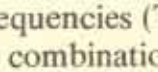


11.8 In doubtful cases the question about sign boundaries can usually be resolved by a comparison of pairwise frequencies of signs. This can be illustrated by an example. The possible alternative readings for 1218 can be as follows:

Reading A :  as 5 signs

Reading B :  as 4 signs

Reading C :  as 3 signs

From the statistics of pairwise frequencies (Table II) it will be seen that reading C is the only tenable one as the other pairwise combinations listed above do not occur in the *Texts* (except for one doubtful occurrence of  in 2124).

11.9 It should however be stressed that the rule about integral signs is only one of convenience, and may have to be reviewed when the script is deciphered, or at least better understood. For instance, the same signs repeated twice or more may be plurals represented by one word in the Harappan language. The super-script stroke signs ¹, ², ³ so often found after initial or quasi-initial signs are probably grammatical suffixes and may be integrally attached to the preceding words. In fact, there are two exceptional occurrences showing ³ ligatured to the preceding signs (1332 and 5067). It is however best, in the present state of our knowledge of the script, to treat each such sign as independent.

11.10 *Frequency of signs*

The following statement summarises the frequency of signs in the *Texts:*

FREQUENCY RANGE	NO. OF SIGNS	TOTAL SIGN OCCURRENCES	PER CENT (OF TOTAL OCCURRENCES)
1000 or more	1	1395	10.43
999 - 500	1	649	4.85
499 - 100	31	6344	47.44
99 - 50	34	2381	17.81
49 - 10	86	1833	13.71
9 - 2	152	658	4.92
Only once	112	112	0.84
Total	417	13372	100.00

The figures show clearly how relatively few signs take most of the functional load in the script. At one end we have 2 signs ³ and ², which appear to be grammatical suffixes from their frequency and positional characteristics, accounting for over 15 per cent of the total sign occurrences. 67 signs account for over 80 per cent of the total occurrences, constituting the

core of the script. At the other end, we have 112 signs each occurring only once. Many of these are compound signs. The independent status of the signs each with a single occurrence is however doubtful, and their inclusion in the Sign List is provisional until more examples are found or, as is more likely, they are recognised as graphic variants of the more frequent signs.

11.11 *Positional distribution of signs*

A sign can occur in four possible positions with respect to a line of text, viz. solus (one sign constituting the whole line), initial, medial or final. The following statement summarises the positional distribution of signs with respect to lines of text:

POSITION	NO. OF SIGNS	TOTAL FREQUENCY
Solus	88	190
Initial	290	3010
Medial	286	7196
Final	173	2976
Total	417*	13372

* A sign can occur in more than one position.

The relative larger frequency of the final signs indicates, as should be expected, the occurrence of grammatical endings among them.

11.12 *Sign combinations*

Stable sign combinations can be readily identified from the *Concordance*. The most stable sign combinations in the script are those formed by two signs. The following statement summarises the frequency range of pairwise combinations (see Table II):

FREQUENCY RANGE	NO. OF PAIRWISE COMBINATIONS	TOTAL FREQUENCY	PER CENT
100 times or more	6	949	9.69
99-50 times	13	898	9.17
49-25 times	38	1307	13.34
24-10 times	135	1953	19.93
9- 2 times	873	2998	30.60
Only once	1693	1693	17.27
Total	2758	9798	100.00

Not all the pairs are necessarily true combinations. Analysis of adjacent pairwise combinations and near-identical or similar sequences leads to the separation of 'real' pairs (corresponding to linguistic units) from random pairs. It is possible to achieve 'word-division' by pursuing this line of enquiry without having to make any *a priori* assumption as to the nature of the language of the inscriptions.

12. CODES

12.1 Each line in the *Texts* and the *Concordance* is accompanied by a number string at the left of the page giving the Text number and other relevant background data in a coded form. A set of six codes provides the explanations. The same codes are also used in the Tables. In addition, a letter code (Code 7) for the sites is used in the Tables and the Lists. Signs read doubtfully are indicated by an asterisk (*) prefixed to the sign at top right. Lost, damaged or illegible passages are marked by the symbol ▨ (which may stand for one or more lost signs as, in the nature of things, it is not possible to count such signs). See Codes (pp. 30-31).

12.2 *Arrangement of codes for the Texts*

The number strings accompanying the lines in the *Texts* are in ten digits. These are made up of six codes giving the following data:

NO. OF THE CODE	DESCRIPTION	COL. NO. IN TEXTS
1.	Text number	1-4
2.	Type of inscribed object	5
3.	Side number	6
4.	Field symbol on the side	7-8
5.	Line number	9
6.	Direction of writing of the line	10

Codes for Text number and Type (cols. 1-5) are not repeated for the additional sides of the same object. Codes for Text number, Type, Side number and Field symbol (cols. 1-8) are not repeated for the additional lines occurring on the same side. (See para. 13.3 below.)

12.3 *Arrangement of codes for the Concordance*

The number strings accompanying the lines in the *Concordance* are in six digits giving only the Text number (cols. 1-4), Side number (col. 5) and Line number (col. 6), the codes being the same as in the *Texts*. Code for Text number (cols. 1-4) is not repeated for the additional sides and lines of the same object. (See para. 14.5 below.).

13. THE TEXTS

13.1 The corpus comprises 2906 texts in 3573 lines with 13372 legible sign occurrences, constituting the largest collection of inscriptions in the Indus Script published so far. Texts with more than one line have been arranged with the lines shown separately one below the other. Sides with field symbols but without lines of text are also listed in separate lines. These lines are however not included in the *Concordance*. No attempt has been made to restore lost signs conjecturally. Readings have been critically collated from all available sources, both original and secondary. Consistency in readings has been checked with the help of the *Concordance*, especially in reading doubtful signs.

13.2 Arrangement of the *Texts* involves the following conventions:

(i) *Uniform orientation of texts*

All seal-texts are copied as they would appear on impressions, so that the readings have the same orientation as those copied directly from the originals in respect of all other types of objects.[21]

(ii) *Uniform orientation of lines*

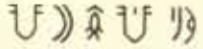
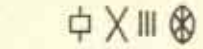
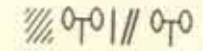
All lines of text are copied in a uniform direction, that is, from right to left, irrespective of the direction on the originals (or on the impressions in the case of seals). The actual direction of writing is however indicated by a numeral code for each line of text.

(iii) *Normalisation and uniform orientation of signs*

The *Texts*, *Concordance* and the *Tables* are printed in a normalised signary and the sign variants are not distinguished. However, the List of Sign variants records all significant graphic variants with an index of occurrences (giving one example for each recorded variant). Asymmetric signs are printed with the normal orientation (See paras 10.7 and 11.4).

13.3 *A specimen passage from the Texts.*

A specimen text (2405) is reproduced below from the *Texts* (p.70) to illustrate the arrangement:

1-4	5	6	7-8	9	10	
2405	1	1	01	0	1	
		2	00	1	2	
				2	1	
		3	00	0	1	
		4	00	0	1	
		5	00	0	3	
		6	00	0	9	

Explanations:

COL. NO.	DESCRIPTION	CODE	KEY
1-4	Text number	2405	*FEM* 405
5	Type	1	Seal
6	Side number	1-6	Sides 1 to 6
7-8	Field symbol	01	Unicorn (on side 1)
		00	Nil (on other sides)
9	Line number	0	Only line (on sides 1, 3-6)
		1	First line (on side 2)
		2	Second line (on side 2)
10	Direction of writing	1	Right to left
		2	Left to right
		3	Only sign in the line
		9	Doubtful

Note: The symbol indicates illegible or lost passages with one or more signs. The line of text on the sixth side is wholly illegible, but included as other lines of the same text are legible.

14. THE CONCORDANCE

14.1 The *Concordance* is a complete index of sign occurrences in the *Texts*. The *Concordance* also sets out the textual context of each sign occurrence in full by reproducing the entire text each time along with the sign occurrence.

14.2 *Earlier concordances*

The first two concordances (the Sign Manuals in *MIC* and *EH*) copy each text with the first signs aligned one below the other. There seems to be no particular order among lines with the same key sign. Hunter introduced in his concordance the principle of arranging the key signs one below the other in a central column and grouping the texts with the same environment in order to bring out uniformities in sequences. This arrangement has also been followed in the Finnish Concordance (*A Concordance to the Indus Inscriptions*, Parpola *et al*, 1973), which has also introduced the convention of arranging all lines of text to run in one direction (right to left) so as not to disturb the sequences in identical texts. However, the use of pairwise combinations in the Finnish Concordance as the basis of tabulation cannot be considered to be an improvement as it has created several avoidable problems in presentation.[22]

14.3 Arrangement of the present *Concordance* is as follows:

(i) A six-digit Reference number for each line of text consisting of the Text, Side and Line numbers (in that order) is given at the left of the page. See Codes for explanation (pp. 30-31).

(ii) Each of the legible sign occurrences (including the doubtfully read signs marked with an asterisk sign *) is listed once in the order of the Sign List in the Reference column in the middle of the page (indicated by the letter R at the top) by shifting suitably the position of the Reference line in which the Reference sign occurs.

(iii) Preceding lines (if any) in the same text are given above the Reference line and so arranged as to end immediately before (that is, to the right of) the Reference column. Succeeding lines (if any) in the same text are given below the Reference line and so arranged as to begin immediately after (that is, to the left of) the Reference column. Thus the key signs are placed one below the other in a central column for easy reference. Each text is read from the top line to the bottom line, and each line from right to left.

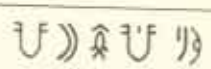
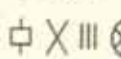
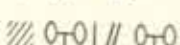
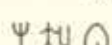
(iv) The listing order of the occurrences of the same sign is positional with reference to the whole text as the unit. The solus occurrences (a single sign constituting the whole text) are listed first, followed by the initial occurrences and thereafter the non-initial occurrences. The initial occurrences are listed in the order of the succeeding signs. The non-initial occurrences are first listed in the order of the preceding signs. Where the preceding signs are identical, the arrangement is by the succeeding signs. For purposes of sorting, signs occurring in all the lines of a text are taken into account. Identical texts are listed in the order of the Text numbers.

(v) The *Concordance* is indexed by a Sign List which appears on the right-hand side of the page under the heading 'INDEX'.

14.4 The compilation of the *Concordance* on these lines has been a complex operation and made possible only by the use of a large computer and elaborate programming. The effort has been worth the while as a concordance is the basic and indispensable tool for a statistical-positional study of the script. The frequency and positional distribution of each sign and sign combination can be readily ascertained from the *Concordance*. The juxtaposition of near-identical sequences can be used to determine word division. Frequent sign combinations (especially, pairs and triplets) help us to determine the direction of writing of lines containing these combinations. Doubtful signs (marked with a prefixed asterisk*) can be read with a fair amount of confidence by a comparative study of identical sequences. The order of lines of text as well as the direction of writing of lines can be judged by comparing adjacent terminal signs. Sign variants can be distinguished to a large extent by the use of the *Concordance* which sets out the identical or similar environments of the variants.

14.5 *A specimen passage from the Concordance:*

A specimen text (2405) listed under the Reference Sign is reproduced below from the *Concordance* (p. 192) to illustrate the arrangement:

1-4	5	6	R	INDEX
2405	1	0		
	2	1		
	2	2		
	3	0		
	4	0		
	5	0		
	6	0		

Explanations:

COL. NO.	DESCRIPTION	CODE	KEY
1-4	Text number	2405	*FEM* 405
5	Side number	1-6	Sides 1 to 6
6	Line number	0	Only line (on sides 1, 3-6)
		1	First line (on side 2)
		2	Second line (on side 2)

R: Reference column in which the key signs are listed.

INDEX: indicates the sign which is being listed in the Reference column. Each sign is reproduced once in the Index along with the text where the sign occurs first. Indexing is in the order of the Sign List.

Note: The Reference sign occurs in the middle line. The preceding lines are placed above and to the right of the Reference sign. The succeeding lines are placed below and to the left of the Reference sign. The whole text is read from top to bottom and each line from right to left.

15. TABLES

15.1 A set of nine tables[23] is included in the volume to provide basic statistics relating to the Indus Script (pp. 717-82). The aim of the *Tables* is to make available the primary data in a compact form for further research. Interpretation of the data is beyond the scope of the present work.

15.2 *Textual analysis*

The study of an undeciphered script commences with an analysis of frequency and positional distribution of signs and sign combinations. Table I provides the relevant data for the sign with reference to a line of text. The reasons why a line of text, and not the whole text, is treated as the unit for distribution analysis have been explained earlier (para.9.3). However, the *Concordance* will enable one to gather readily similar statistics with the whole text as the unit.

15.3 *Pairwise frequencies*

A study of pairwise frequencies of sign combinations will lead to 'word division'. Table II arranges the pairwise sign combinations occurring in the *Texts* in the order of the first (i.e. right-hand side) member.

15.4 *Context analysis*

The statistical data included in Tables III to IX provide material for a context analysis of the inscriptions with reference to their background. Such an analysis will seek to explore the possible relationship between the inscriptions and the inscribed objects and between the latter and its archaeological context of occurrence. The parameters chosen for context analysis are the following:

(i) Site of occurrence[24]

(ii) Type of inscribed objects

(iii) Field symbols associated with the inscriptions.

15.5 *Site of occurrence*

The Indus Civilization was the largest known to the ancient world. Hundreds of Harappan sites have been discovered over a vast area of the Indian subcontinent stretching from the eastern borders of Iran to the Gangetic Doab and from the foothills of the Himalayas to the estuary of the Tapti. In studying the inscriptions from such a large area, it is necessary to take the provenance into account and look for any significant variations in the material available from Mohenjodaro and Harappa, the twin 'metropolitan' centres of the Indus Civilization on the one hand, and the outlying 'provincial' centres of Lothal and Kalibangan and the smaller settlements on the other. The small group of West Asian finds is of exceptional interest in this connection. The present volume includes four statistical statements showing the distribution of types of inscribed objects (cf. para. 6.2 above), signs of the script (Table III), direction of writing (Table VI), and field symbols (Table VIII) with reference to the site of occurrence.

15.6 *Types of inscribed objects*

The inscribed object is the most important of the external characteristics associated with an inscription. The typology of the inscribed object has to be studied for possible clues to an understanding of the nature of the inscriptions appearing on them. The distribution of object-types with reference to their site of occurrence (cf. para. 6.2 above), as well as

the distribution of the signs of the script, direction of writing and the field symbols with reference to the object-types are studied in separate tables (Tables IV, VII and IX).

15.7 *Field symbols*

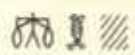
Next only to the inscribed objects, the field symbols are the most prominent of the external features associated with the inscriptions. The possible connection between the inscriptions and the associated field symbols has intrigued scholars. Not much progress has however been made in this matter beyond the obvious observation that the same text appears with different field symbols and *vice versa*.[25] The distribution of the signs of the script with reference to the associated field symbols is studied in Table V. (For this purpose, the whole of the inscribed object is taken as the unit, as the inscriptions and the field symbols may occur on the same or on different sides of an object.) Two other tables included here study the distribution of field symbols with reference to their site of occurrence and the types of objects on which they appear (Tables VIII and IX).

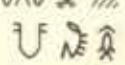
16. POSTSCRIPT

16.1 *Addendum to the Texts*

The following five inscriptions could not be included in the *Texts* in time and hence not utilised in the compilation of the *Concordance* and the *Tables* also:

KALIBANGAN

8123 200101 

8222 400001 

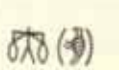
8401 910003

20003

OTHER SITES

9222 400003

WEST ASIAN FINDS

9853 100301 

16.2 *Notes on the additional texts*

8123 Sealing on a terracotta lump with one extant stamp impression. Copied from the original (ASI 68.1.70).

8222 Inscribed potsherd with overlapping incisions. *PT*: 7(1974): Pl. VI-A

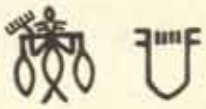
8401 Oval-shaped terracotta object with one large sign incised on each of the two flat sides. *ASH*, No.274.

9222 Inscribed potsherd found at Banawali. Copied from the original in DAH.

9853 A Harappan steatite square stamp seal recently found at Nippur. *Man & Environment*, vol. I (1977), Pl. VIII-C.

16.3 *Addendum to the Sign List*

After the film font for printing the present volume had been finalised, two new signs (numbered 418 and 419) have come to light from recently discovered inscriptions (cf. 8401 and 9222 in para. 16.1 above), which could not be included in the Sign List.



418 419

16.4 *Addendum to the List of Sign Variants*

These have been incorporated in a separate column at the end of the List of Sign Variants (pp. 785-92).

NOTES

1. Iravatham Mahadevan and K.Visvanathan, 'Computer Concordance of Proto-Indian Signs', *Radio-carbon and Indian Archaeology,* p.291, TIFR (1973).

2. Marshall (citing Langdon), *MIC,* vol.I.p.39. For abbreviations used for the titles of source publications, see List of Sources for Texts (pp.814-15).

3. For the later excavations at Harappa and Mohenjodaro, see *ARASI,* 1930-34, p.72; ibid., 1934-35, p.31, Pl.X; ibid., 1935-36, p.35; ibid., 1936-37, p.39.

4. However, the ASI Photo Library in New Delhi has unpublished photographs of most of the objects excavated at Harappa and Mohenjodaro upto about 1942.

5. One of the texts from West Asian finds of Harappan seals copied by G.R.Hunter (*Script of Harappa and Mohenjodaro,* Introduction, No.11) had to be omitted as I missed copying the original during my visit to the Louvre, Some of the texts reproduced in *A Concordance to the Indus Inscriptions* (Parpola *et al,* 1973) which were copied by Asko Parpola mostly from unpublished originals in Pakistan are not also included. Such omissions, especially of unique texts, are however very few.

6. An object is considered as 'published' only when a photograph of the original or of the impression has been published.

7. A unique seal from Kalibangan (8011) is an exception to the proposed classification and deserves special mention. This is a pink terracotta object with a boss on the reverse, proving it to be a stamp seal. But the text in two lines and the field symbol of a rhinoceros looking to the left (on the original) are both *in relief* showing that the seal itself was made from a mould. In this case the seal impression would be sunken. This unique seal is therefore recognised as a distinct sub-type ('raised seal'). cf. Fig. 27 in Pl. II (p. 803).

8. Compare, for example, 4447 and 4478. These objects have two sides each with identical lines of text. But *EH* illustrates the 'upper side' of 4447 as the 'lower side' of 4478 and *vice versa.* See also the illustrations of 4474 and 4518 in *EH* for similar reversal.

9. The suggestion that the animal, which is seen in profile, may have the other horn 'behind' the horn seen on the seals is confirmed by the occurrence of two-horned bulls identical in every other respect with the 'unicorn'. (cf. 2234, 2359, 4314, 5264 and 8022). cf. Figs. 8 & 9 in Pl. I (p. 801).

10. The following are the important publications on the question of direction of writing of the Indus Script: Gadd and Smith, *MIC*, p.409; Langdon, ibid, p.427; Hunter, *Script of Harappa and Mohenjodaro*, p.37; A.S.C.Ross, 'The Direction of the Mohenjodaro Script', *New Indian Antiquary*, vol.II (1939-40), p.554; A.H.Dani, *Indian Palaeography* (1963), p.16; B.B.Lal, 'The direction of writing in the Harappan Script', *Antiquity*:XL (1966) p.52; B.B.Lal, 'A further Note on the direction of writing in the Harappan Script', *Puratattva*, I(1967-68), p.15; Alekseev, *Soviet Studies on Harappan Script*, tr. by H.C.Pande, Paper No.6, Field Research projects (1969), p.1; Parpola *et al.*, *Decipherment of the Proto-Dravidian Inscriptions of the Indus Civilization* (1969), p.18; J.V.Kinnier-Wilson, *Indo-Sumerian, A New Approach to the problems of the Indus Script* (1974), p.30.

11. *EH*, p.326

12. cf.1904, 2929, 2930, 5505, 5507, 5508, 9061, 9062, 9063 and 9085.

13. The Indus Script has perhaps the largest number of symmetrical signs known in any ancient pictographic script. The proportion of symmetrical signs is higher in the group of the more frequent signs. Even in compound signs, a tendency towards symmetry can be seen, cf. , , and . This evidence seems to show that the Indus Script, as we know it, is primarily a 'seal-script'.

14. It has to be recognised, as Ross (op.cit.) pointed out that this *is* an assumption, but one justified by universal experience. We know of scripts reading from the left or from the right, or from top to bottom, but none from bottom upwards either for single lines or for rows of lines. The occurrence of smaller signs in the lower line (1101, 1139, 1237, 1253, 2611 etc.) is also good evidence for this assumption.

15. This precaution is necessary for reasons stated in para 10.4(a) above. In fact, there are eight texts in the volume in which the disposition of the field symbols (mostly unicorn) has forced the scribe to lower the first one or two signs with the result that the lower lines have to be read first, as judged from the evidence of single-line sequences; cf. 1093, 1167, 1303, 1385 and 6118 (each with the first sign dropped below the line) and 2696, 5119 and 6108 (each with the first two signs dropped below the line).

16. cf. 1101, 1247, 2405, 2587, 2601, 6104, 6402, 8012 and 8020.

17-20. The earlier sign lists of the Indus Script are the following: (i) Langdon, *MIC*, vol.II, pp.434-55; (ii) Gadd and Smith, *MIC*, vol.III, Pls.CXIX-CXXIX; (iii) Vats, *EH*, vol.II, Pls.CV-CXVI; (iv) G.R.Hunter, *Script of Harappa and Mohenjodaro* (1934), pp.203-10; (v) G.R.Hunter, *JRAS* (1932), pp.491-503; (vi) A.H. Dani, *Indian Palaeography* (1963), Pls. I-II; (vii) Parpola *et al*, *A Concordance to the Indus Inscriptions* (1973), pp.xxii-xxvi.

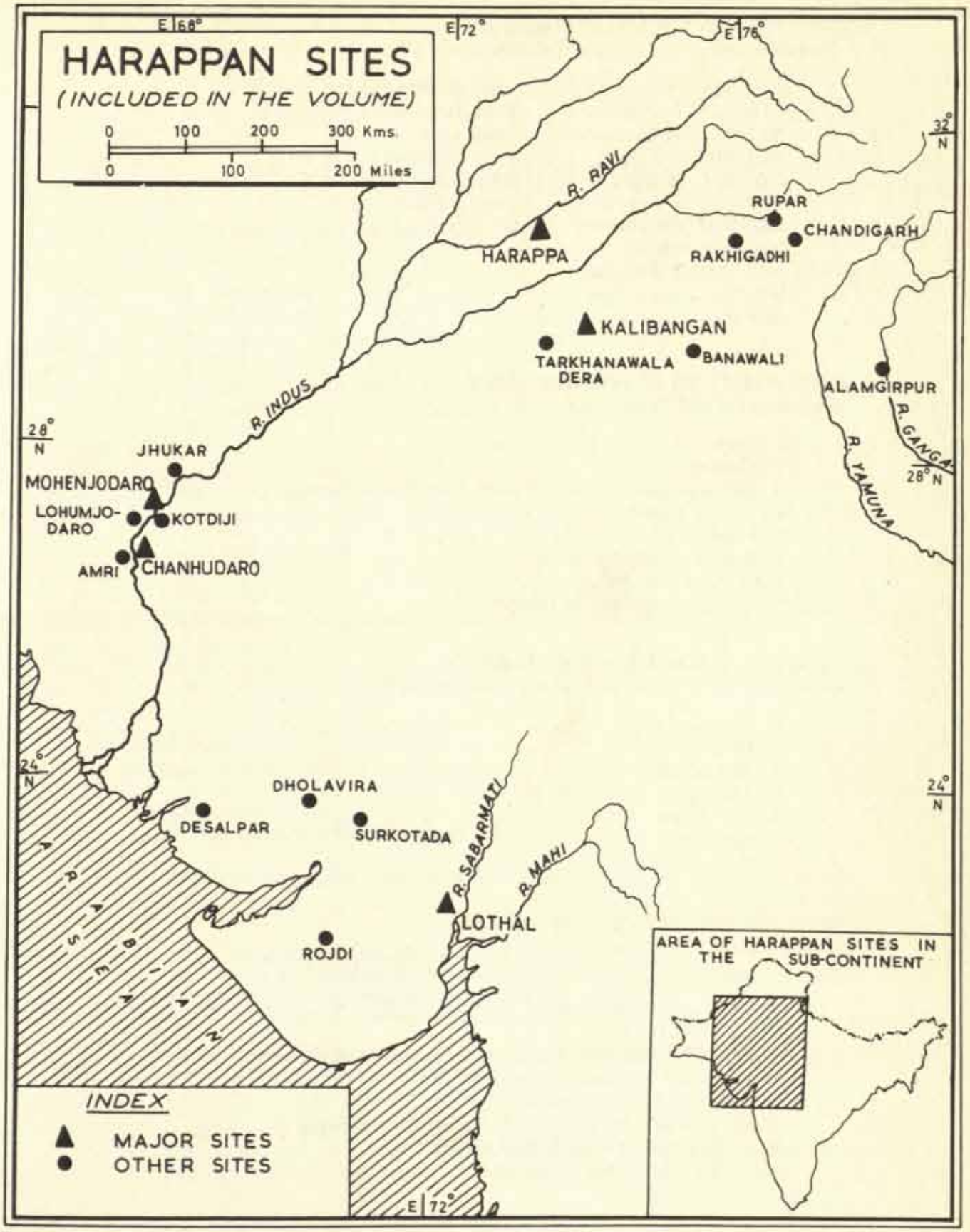
21. The source publications normally show the seal impressions on their plates, but sometimes direct photographs are reproduced, e.g. *EH* 273, 276, 279, 283 and 284. At other times impressions of directly incised objects (which are not seals) are given, e.g. *MIC* 529-533. Photographs are also occasionally reversed (as in *EH* 276, 279 etc.), or even turned upside down, e.g. *MIC* 471, 477, 559; *FEM* 579, 682; *EH* 223, etc. These errors have been corrected by critical collation with the original objects and unpublished photographs.

22. This arrangement violates the basic principle of concordance-making, viz. that all occurrences of a sign should be listed together. The Finnish Concordance splits up the sign occurrences in two parts, depending upon whether the sign in question is the first or the second member of a pair. The second-member occurrences are listed together, while the first-member occurrences are spread out in the order of occurrence of the second member. Single-sign lines are not listed in the central columns of the key signs and cannot be looked up by themselves. Single-sign texts are altogether omitted from the concordance as a result of this peculiar arrangement. Finally, much space is wasted on the listing of 'pairwise combinations' consisting of a real sign with conventional symbols invented by the authors representing lost or illegible signs. However, notwithstanding these limitations of presentation and the absence of full documentation (to be included in a forthcoming volume), the Finnish Concordance is the most accurate so far published and I have extensively consulted it for collation of doubtful readings.

23. Several other tabulations have been prepared on the computer at the TIFR, but could not be included in the present volume due to pressure on space. It is proposed to publish them as separate papers in due course.

24. The input data file also stores information on locus (sub-divisions of the archaeological sites) and level (stratigraphy recorded by the excavators) in respect of objects published in the major sources, viz. *MIC, FEM, EH* and *CE*. Tabulations have also been prepared on the computer containing distributional statistics with respect to these two parameters. It has however not been possible to include them in the present volume due to pressure on space.

25. Two sides of 1227 (*MIC* 227 and 230) have the same field symbol, but different texts. The two sides of 1252 (*MIC* 252 and 378) have the same text but different field symbols. However, the same field symbols generally occur with the same texts in the copper tablets.


HARAPPAN SITES
(INCLUDED IN THE VOLUME)
0 100 200 300 Kms.
0 100 200 Miles
E 68°
E 72°
E 76°
32° N
28° N
24° N
R. RAVI
HARAPPA
RUPAR
CHANDIGARH
RAKHIGADHI
KALIBANGAN
TARKHANAWALA DERA
BANAWALI
ALAMGIRPUR
R. GANGA
R. YAMUNA
R. INDUS
JHUKAR
MOHENJODARO
LOHUMJO-DARO
KOTDIJI
AMRI
CHANHUDARO
DHOLAVIRA
DESALPAR
SURKOTADA
R. SABARMATI
R. MAHI
LOTHAL
ROJDI
ARABIAN SEA
AREA OF HARAPPAN SITES IN THE SUB-CONTINENT
INDEX
MAJOR SITES
OTHER SITES

CODES

1. CODE FOR TEXT NUMBERS (Summary)[1]

(Numerical cols. 1-4 of *Texts* and *Concordance*)

1001-1905	Mohenjodaro	: Texts published in *MIC*, vol.III
2002-2952	Mohenjodaro	: Texts published in *FEM*, vol.II
3001-3513	Mohenjodaro	: Other texts
4001-4905	Harappa	: Texts published in *EH*, vol.II
5001-5601	Harappa	: Other texts
6104-6306	Chanhudaro	: Texts published in *CE*
6402-6405	Chanhudaro	: Other texts
7001-7301	Lothal	
8001-8302	Kalibangan	
9001-9701	Other Sites	
9801-9905	West Asian Finds	

2. CODE FOR TYPES OF INSCRIBED OBJECTS

(Numerical col.5 of *Texts*)

1 Seals
2 Sealings
3 Miniature tablets (made of stone, terracotta or faience)
4 Pottery graffiti
5 Copper tablets
6 Bronze implements
7 Ivory or bone rods
9 Miscellaneous inscribed objects[2]

3. CODE FOR SIDES OF INSCRIBED OBJECTS

(Numerical col.6 of *Texts* and col.5 of *Concordance*)

0 Only side
1 First side
2 Second side
3 Third side
4 Fourth side
5 Fifth side
6 Sixth side

4. CODE FOR FIELD SYMBOLS (Summary)[3]

(Numerical cols.7-8 of *Texts*)

01-35 Animals
36-43 Reptiles, fish, birds etc.
44-46 Trees and leaves
47-59 Anthropomorphic (divine, semi-divine or human) forms
60-81 'Scenes' with anthropomorphic and animal figures, trees and other objects
82-98 Various symbols, motifs and geometrical patterns
99 Damaged or illegible field symbol
00 No field symbol on the side

5. CODE FOR LINES OF TEXT
(Numerical col.9 of *Texts* and col.6 of *Concordance*)

0 Only line of text on the side
1 First line
2 Second line
3 Third line
9 The side has no line of text, but only a field symbol

6. CODE FOR DIRECTION OF WRITING[4]
(Numerical col.10 of *Texts*)

1 Right to left
2 Left to right
3 Single sign in the line of text
4 Top to bottom
5 Symmetrical arrangement of signs
9 Doubtful (on account of damaged or illegible signs)
0 No line of text

7. LETTER CODE FOR SITES
(in Tables and Lists)

MD Mohenjodaro
HP Harappa
CD Chanhudaro
LL Lothal
KB Kalibangan
OS Other Sites[5]
WA West Asian Finds[6]

8. CONVENTIONAL SYMBOLS
(in *Texts* and *Concordance*)

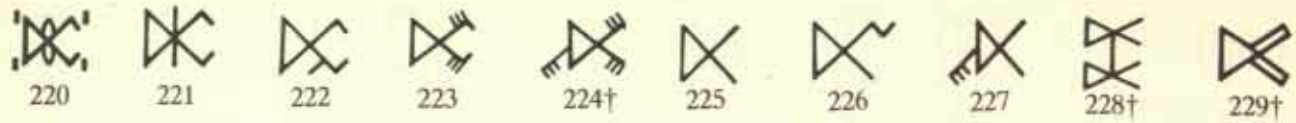
* Sign read doubtfully
(asterisk prefixed to the top right of the sign)

Illegible or lost passage with one or more signs.

NOTES:
1. See the List of Inscribed Objects for the detailed codes (pp. 816-29).
2. The following have been classified as miscellaneous inscribed objects: 6 stone objects (1471, 4599 and 4854 to 4857), 4 fragments of bracelets (3510 to 3513), 1 ivory plaque (1905), 1 ivory dice (2951), 1 imitation carnelian tablet (2952), 1 terracotta ball (4709) and 1 inscribed brick (4811).
3. See the List of Field Symbols for the detailed codes (pp. 793-98). The field symbols are illustrated in Plates I-VII (pp. 799-813).
4. Right and Left refer to impressions of seals and originals of other inscribed objects.
5. 'Other Sites' are the smaller Harappan sites in the Indian subcontinent listed in para. 4 of the Introduction (p. 6).
6. 'West Asian Finds' are Harappan inscribed objects found in West Asia from sites listed in para. 4 of the Introduction (p. 6).

SIGN LIST OF THE INDUS SCRIPT

111† 112† 113 114 115 116 117 118 119† 120†
121† 122 123† 124† 125† 126 127† 128† 129 130†
131 132† 133 134 135 136† 137† 138 139 140
141† 142† 143† 144 145 146† 147 148 149† 150†
151 152 153 154 155† 156 157 158† 159† 160
161 162† 163 164 165 166 167† 168 169† 170
171† 172 173† 174 175† 176† 177† 178† 179 180†
181† 182† 183 184† 185 186† 187 188 189 190†
191 192 193† 194† 195 196 197† 198† 199 200
201† 202† 203 204† 205† 206† 207 208 209 210†
211 212 213† 214† 215 216† 217† 218 219†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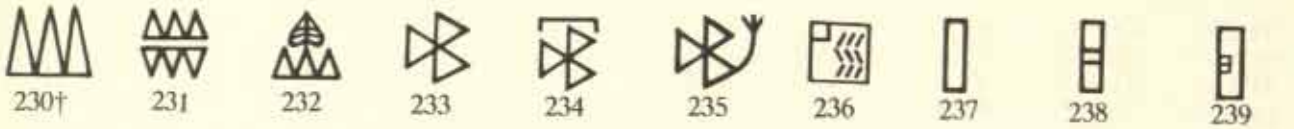
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240 241 242 243 244† 245† 246 247† 248 249

250 251 252† 253† 254† 255 256 257 258† 259†

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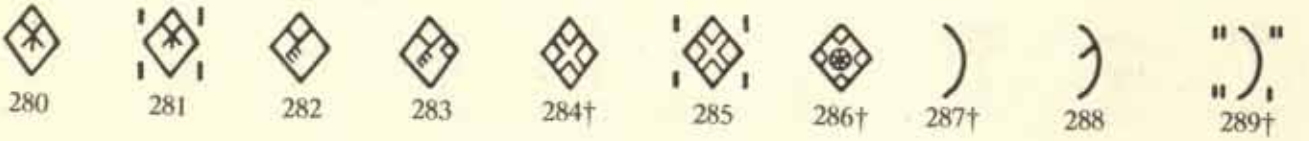
270 271 272† 273 274 275† 276 277† 278† 279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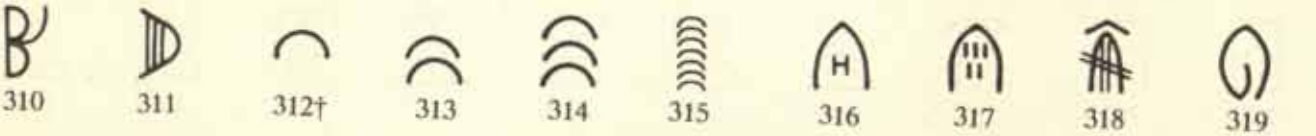
290† 291 292† 293 294† 295† 296† 297† 298† 299

300 301 302† 303† 304 305† 306 307† 308 309


310 311 312† 313 314 315 316 317 318 319

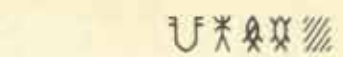
320 321 322† 323 324† 325 326† 327† 328† 329

NOTES:

1. Signs marked † in the Sign List have graphic variants recorded in the List of Sign Variants (pp. 785-92).
2. See Postscript (p. 25) for addendum to the Sign List.

Texts in the Indus Script

1001 103511



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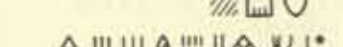

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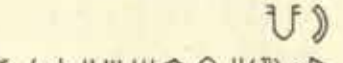

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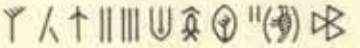

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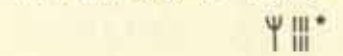

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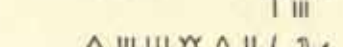

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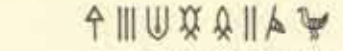

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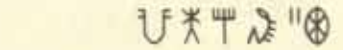

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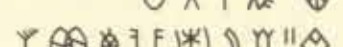

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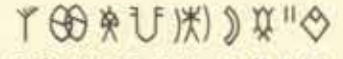

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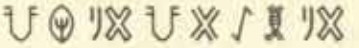

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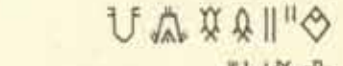

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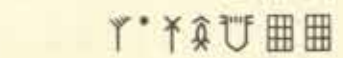

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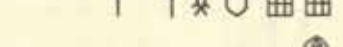

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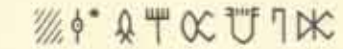

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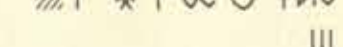

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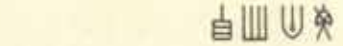

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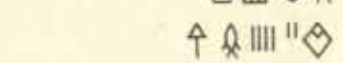

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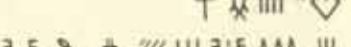

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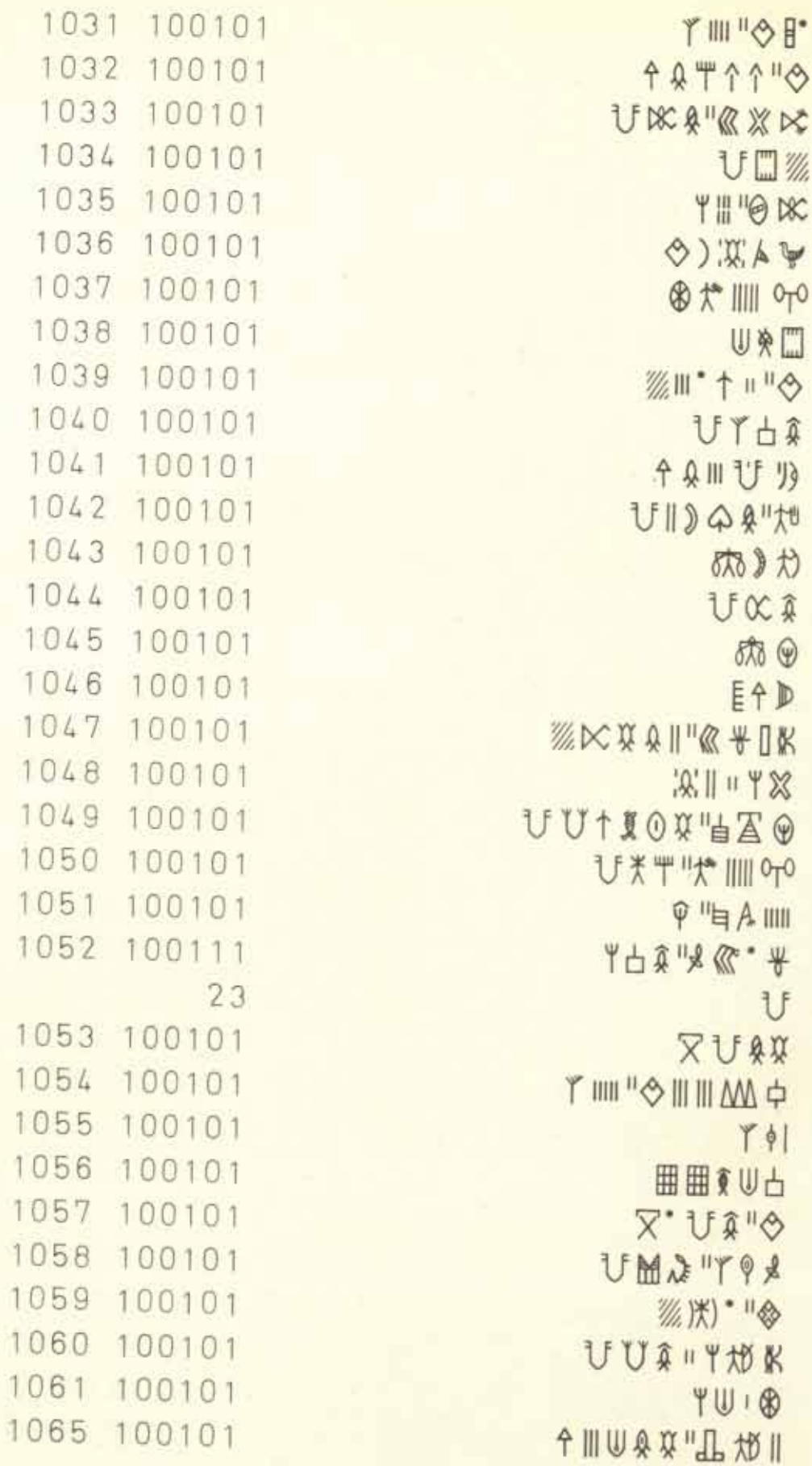
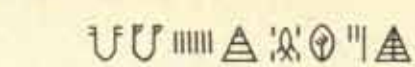


1066	100101	
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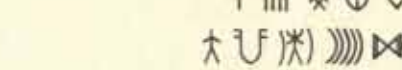
1071	100101	
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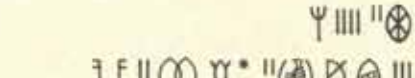
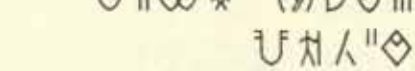
1075	100101	
1076	100101	
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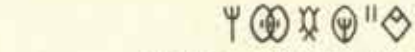
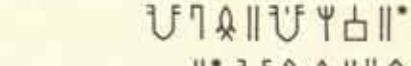
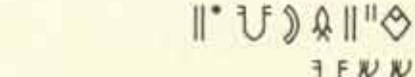
1078	100101	
1079	100101	
1080	100101	
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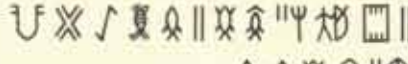
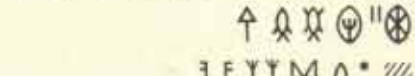
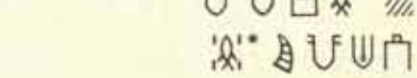
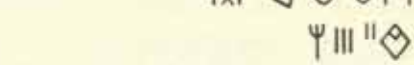
1084	100101	
1085	100101	
1086	100101	
1087	100101	
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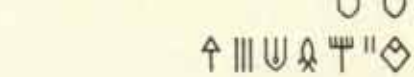
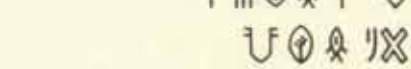
1091	100101	
1092	100101	
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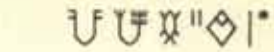
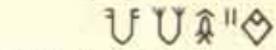
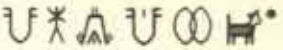
1097	100101	
1098	100101	
1099	100111	
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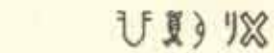
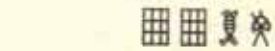
1100	100101	
1101	100111	
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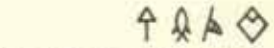
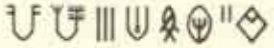
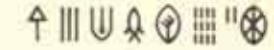
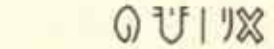
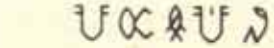
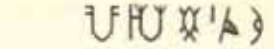
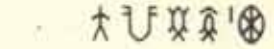
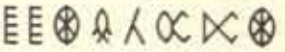
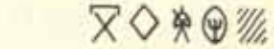
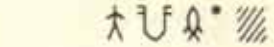
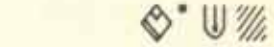
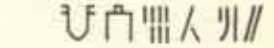
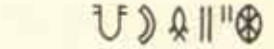
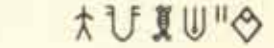
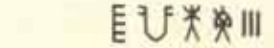
1103	100101	
1104	100101	
1105	100101	
1106	100101	
1107	100101	
1108	100101	
1109	100101	
1110	100101	
1111	100101	
1112	100111	
	21	
1113	100101	
1114	100101	
1115	100101	
1116	100101	
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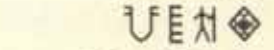
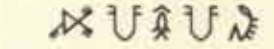
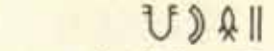
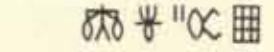
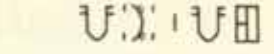
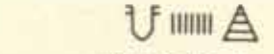
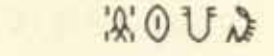
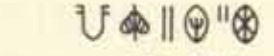
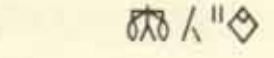
1118	100101	
1119	100101	
1120	100101	
1121	100101	
1122	100101	
1123	100101	
1125	100101	
1126	100101	
1127	100101	

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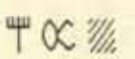
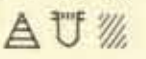
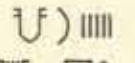
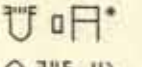
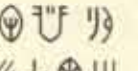
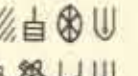
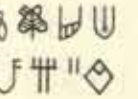
1458	100001	
1459	100001	
1460	100001	
1461	100001	
1462	100001	
1463	100001	
1464	100001	
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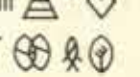
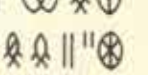
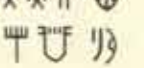
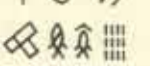
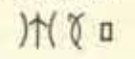
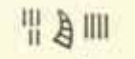
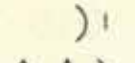
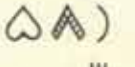
1466	100001	
1467	100001	
1468	100001	
1469	100001	
1470	100001	
1471	910011	
	21	
	20001	
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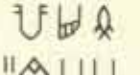
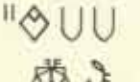
	40003	
1474	100001	
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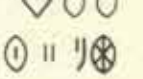
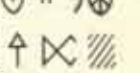
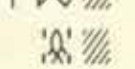
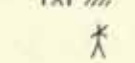
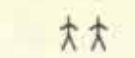
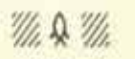
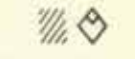
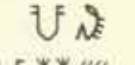
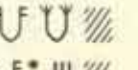
	20001	
1477	100001	
1478	100001	
1479	100001	
1480	100009	
1482	100003	
1483	100005	
1484	100009	
1486	100009	
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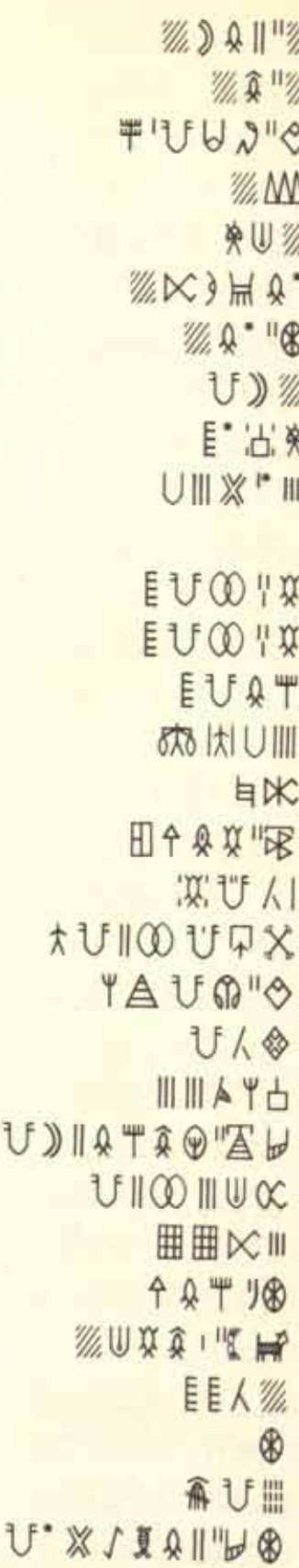

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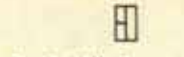
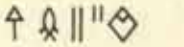
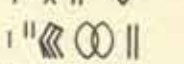
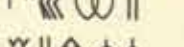
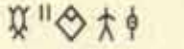
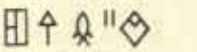
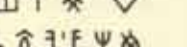
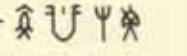
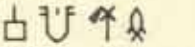
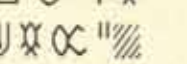
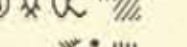
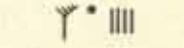
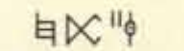
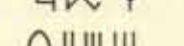
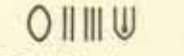
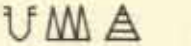
1551	103501	
1552	100101	
1553	100101	
1554	100101	
1555	100101	
1556	100101	
1557	100101	
1558	200001	
1559	200001	
1560	200001	
1561	100001	
1563	100401	
1602	200001	
1603	212501	
	22501	
1604	210003	
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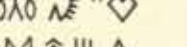
1605	210001	
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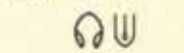
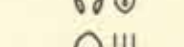
1606	200101	
1607	210101	
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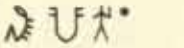
	21103	

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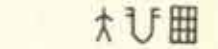

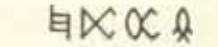

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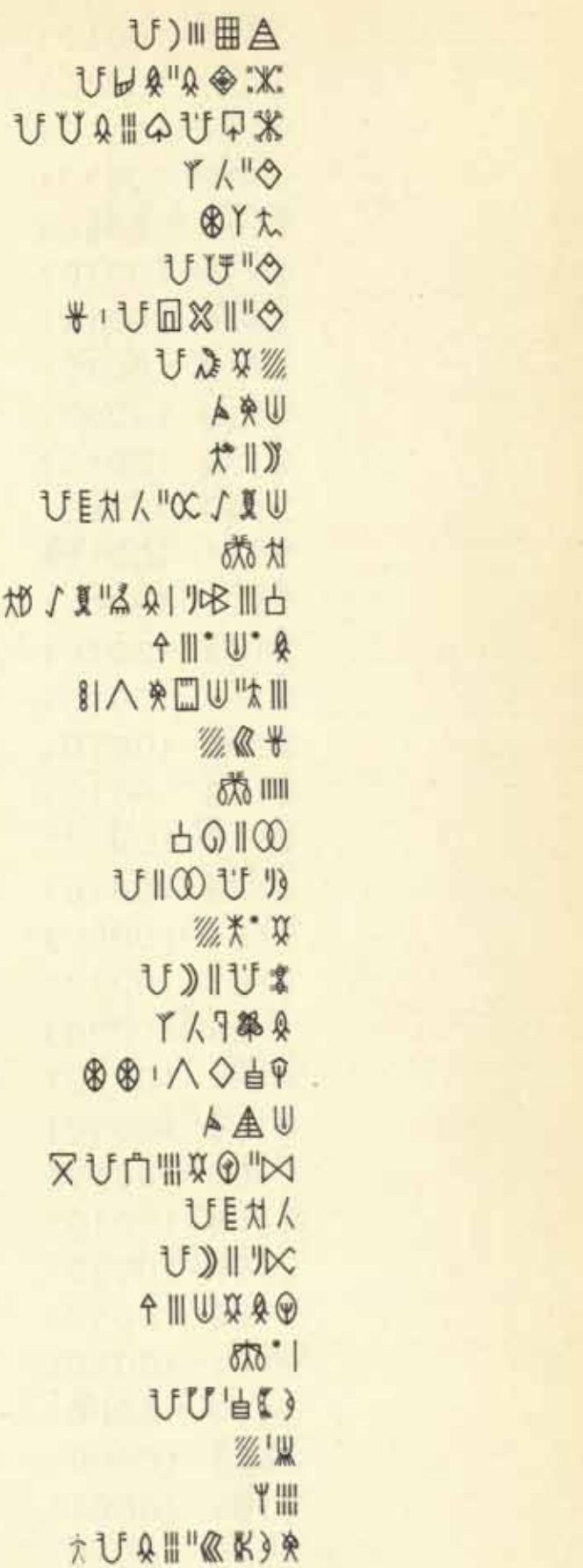
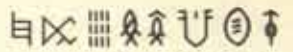
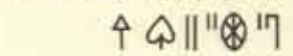
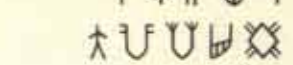
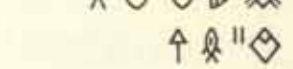
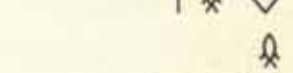
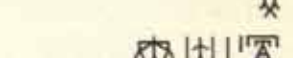
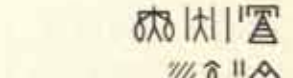
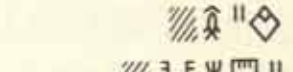
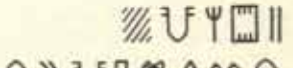
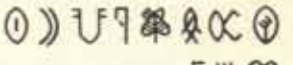


2129 100401 
2130 100101 
2131 101101 
2132 100301 
2133 103603 
2134 100101 
2136 100101 
2137 100101 
2138 100001 
2139 100101 
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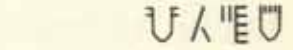
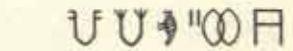
2141 100101 
2142 100001 
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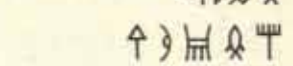
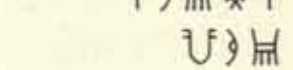
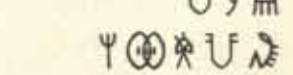
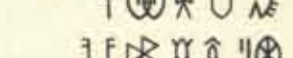
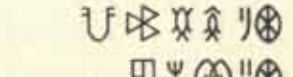
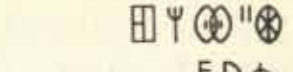
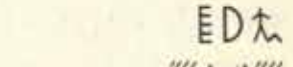
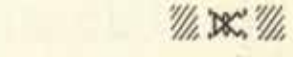
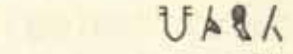
2144 100101 
2145 100101 
2146 100101 
2147 100101 
2148 100101 
2151 100009 
2152 100101 
2153 100303 
2154 100101 
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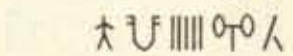
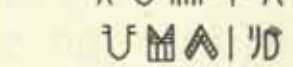
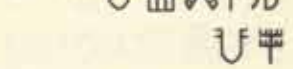
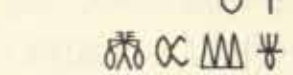
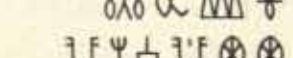
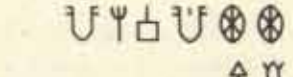
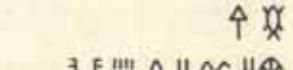
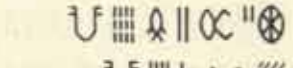
2158 100101 
2159 100001 
2160 100101 
2161 100101 
2162 100001 
2163 100001 
2164 100001 
2165 100101 

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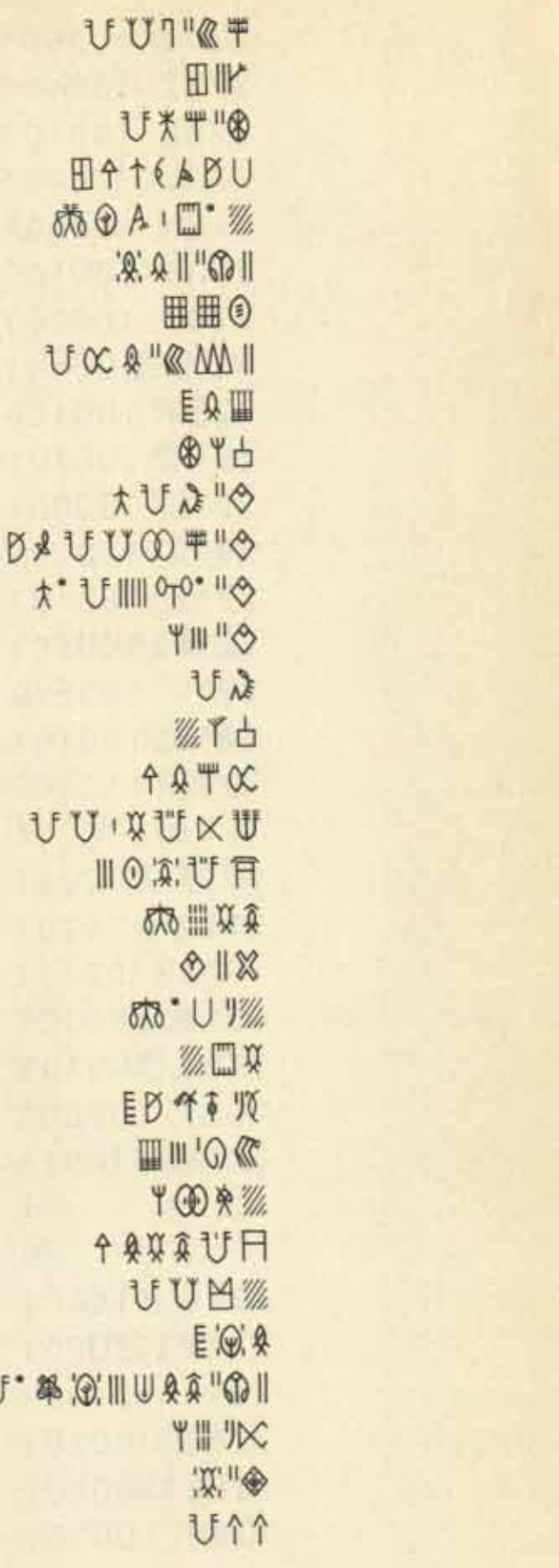

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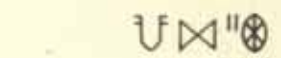
2268	100401	
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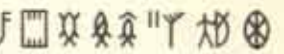
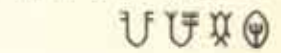
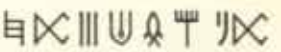
2271	100101	
2272	100101	
2273	100001	
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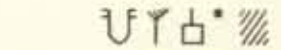
2277	100101	
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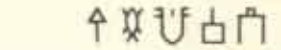
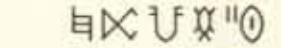
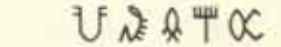
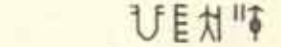
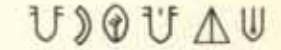
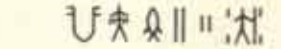
2280	100301	
2281	100101	
2282	100101	
2283	100901	
2284	100101	
2285	100101	
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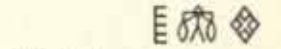
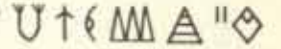
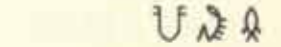
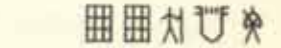
2289	100001	
2290	100401	
2291	100001	
2292	100001	
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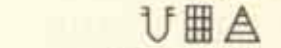
2294	100101	
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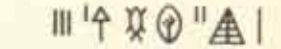
2297	100001	
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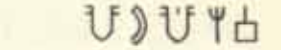
2300	100101	

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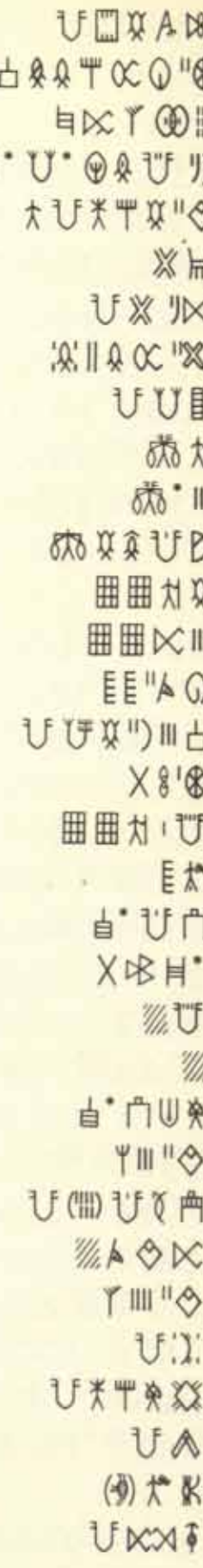

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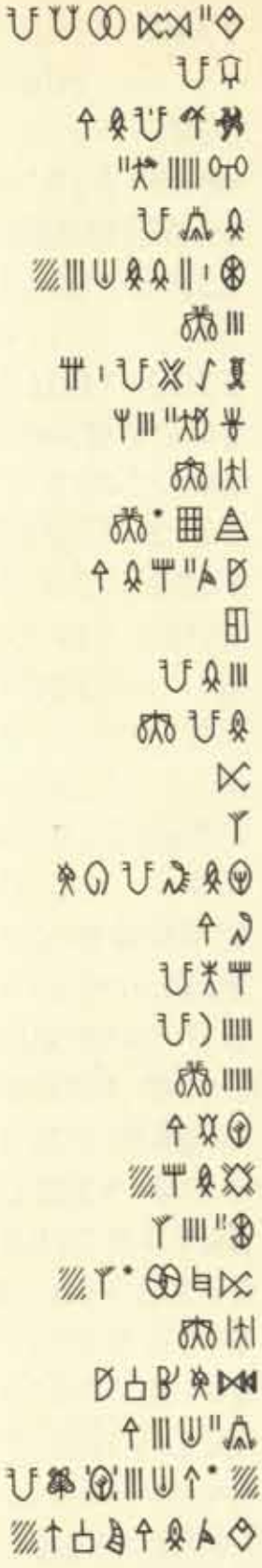

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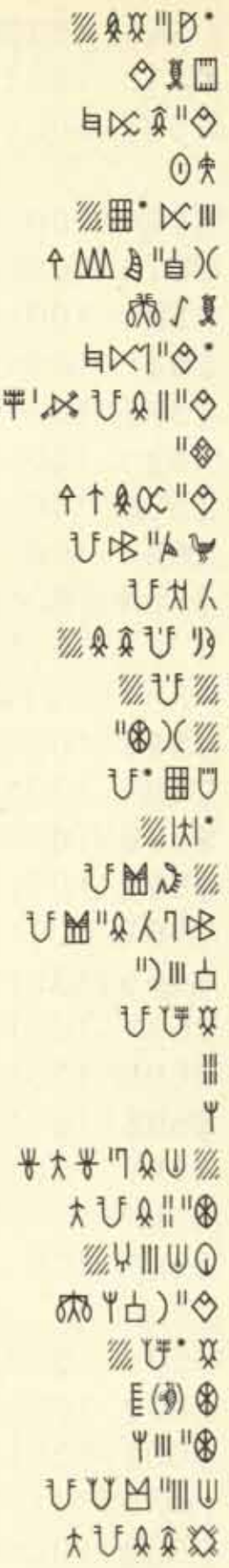

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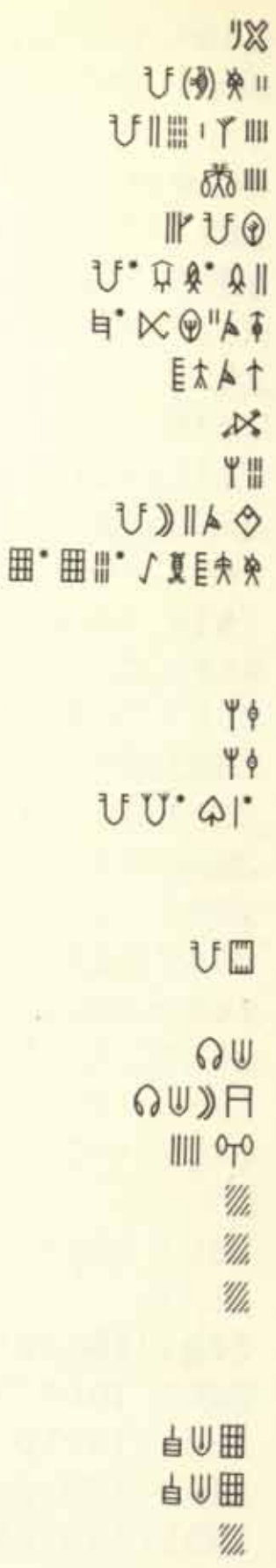

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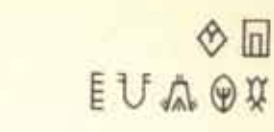

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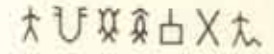

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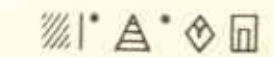

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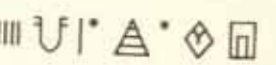

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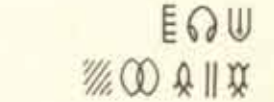

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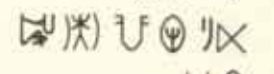

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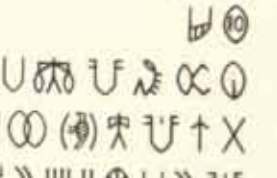

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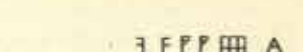

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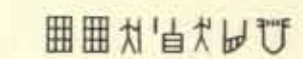

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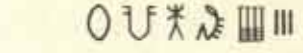

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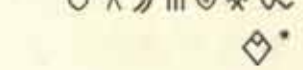

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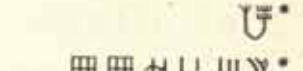

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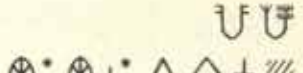

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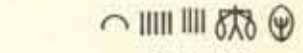

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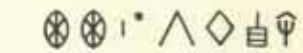

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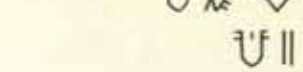

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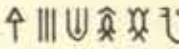
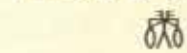
3016	100101	
3019	100001	
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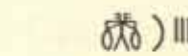
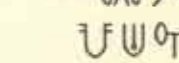
3021	100101	
3022	100101	
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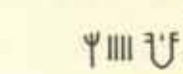
3028	103501	
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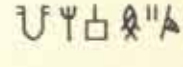
3032	103509	
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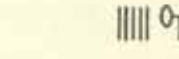
3036	100101	
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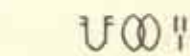
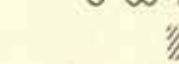
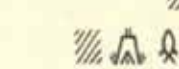
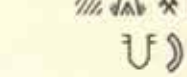
3041	100109	
3042	100101	
3044	100001	
3051	103509	
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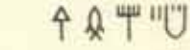
3064	100101	
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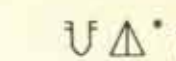
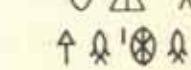
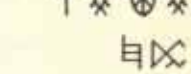
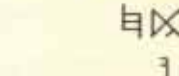
3068	100101	
3069	103501	
3070	100401	
3072	100109	
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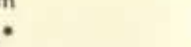

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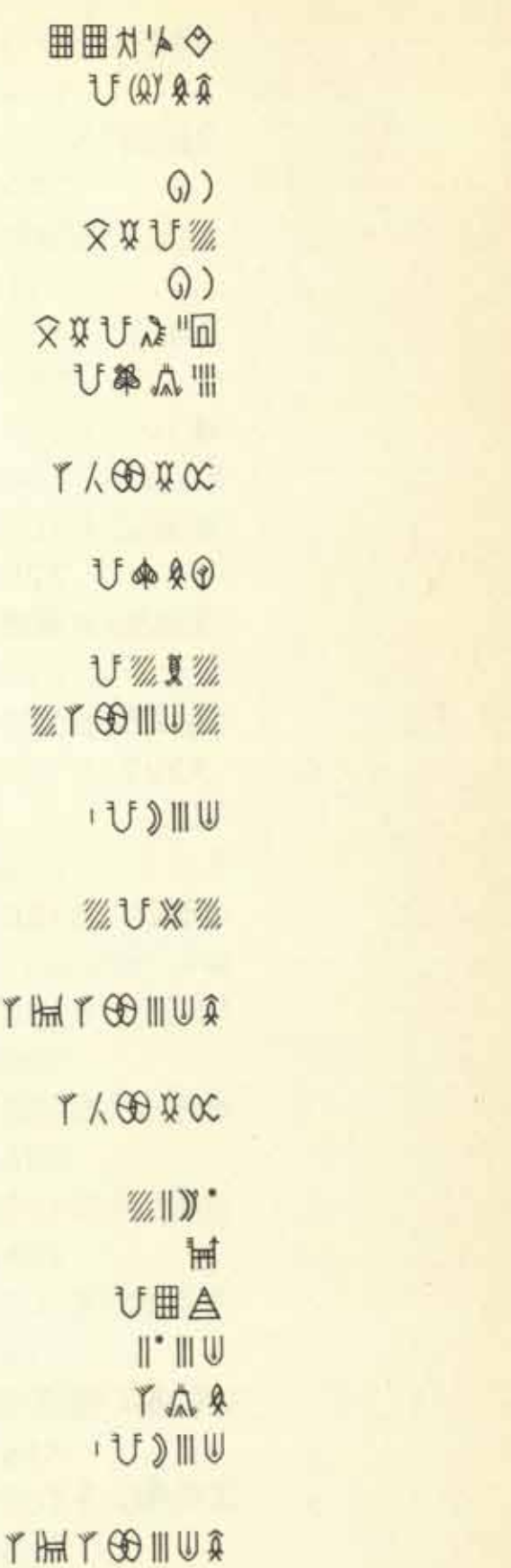

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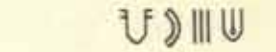

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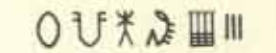

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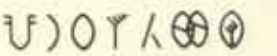

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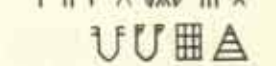

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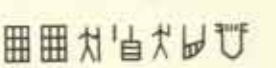

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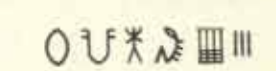

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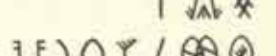

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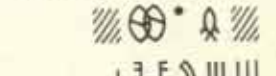

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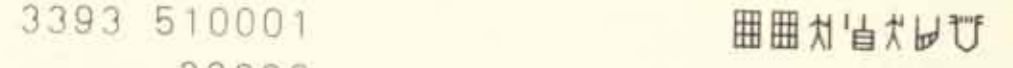

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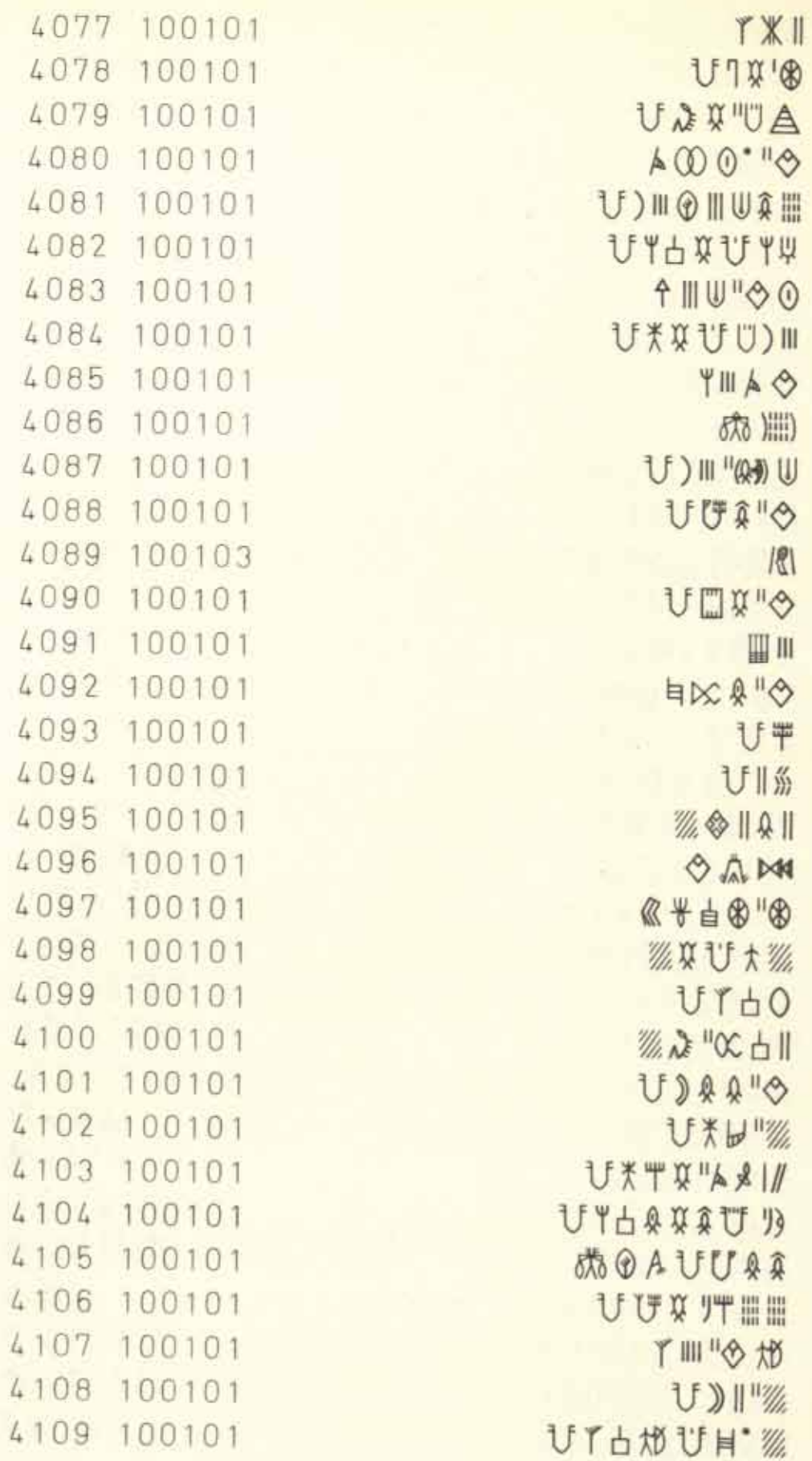

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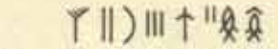
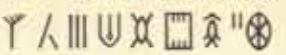
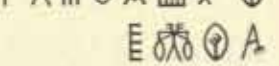
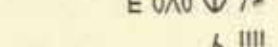
4274	100001	
4275	100001	
4276	110001	
	20002	
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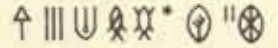
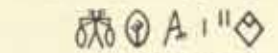
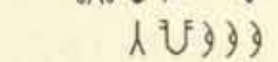
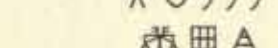
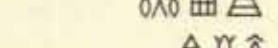
4282	100001	
4283	100001	
4284	100001	
4285	100001	
4286	100001	
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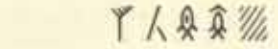
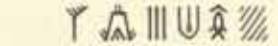
4289	100001	
4290	100001	
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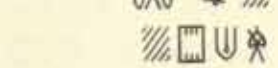
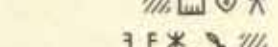
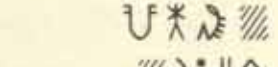
4293	100001	
4294	100001	
4295	100001	
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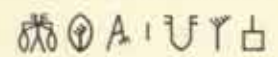
4300	100009	
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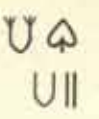

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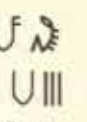

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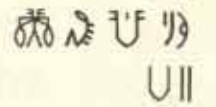

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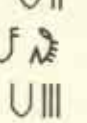

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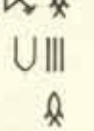

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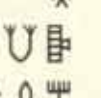

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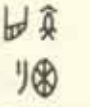

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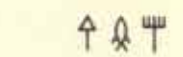

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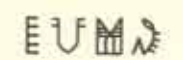

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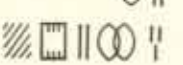

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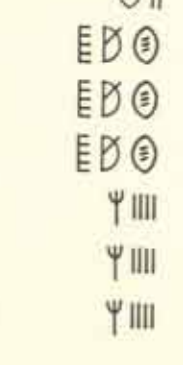

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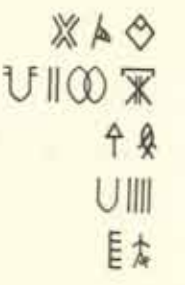

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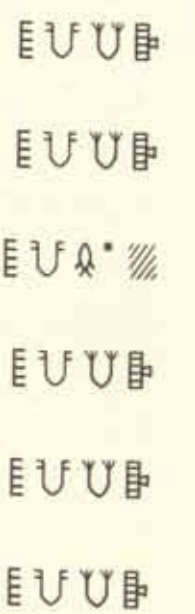

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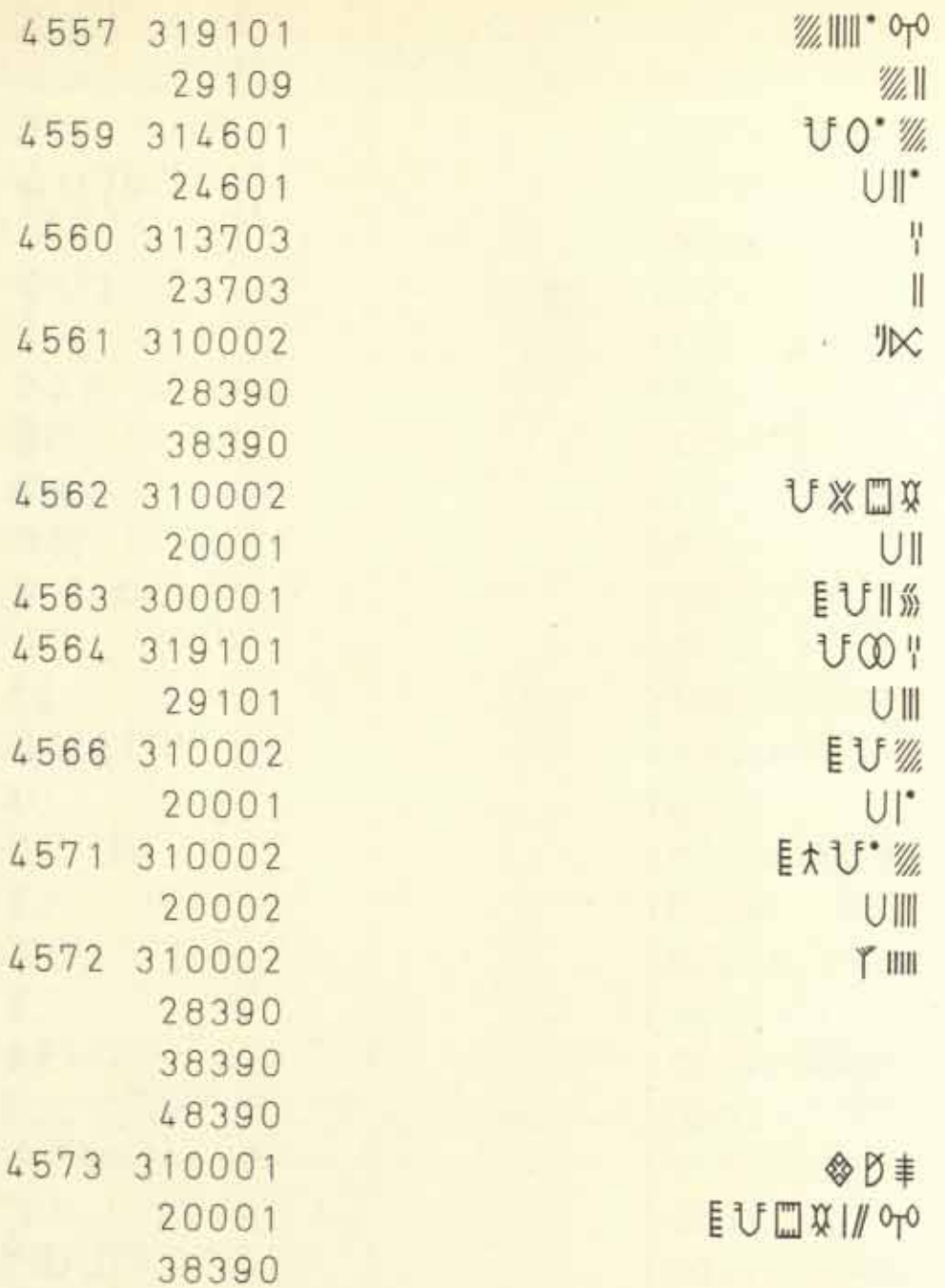

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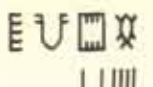

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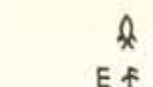

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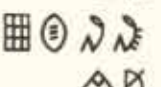

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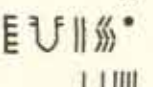

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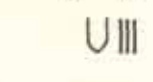

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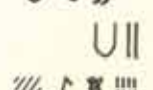

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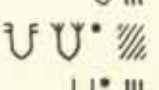

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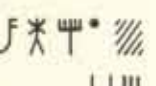

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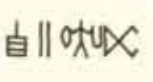

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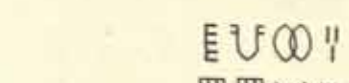

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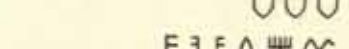

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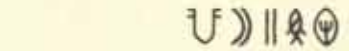

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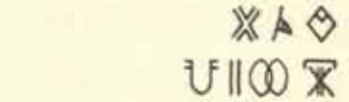

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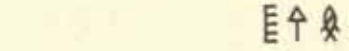

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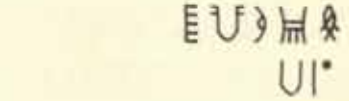

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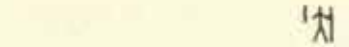

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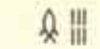
4873	200002	
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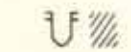
5003	100109	
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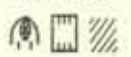
5016	100001	
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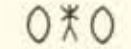
5023	100109	
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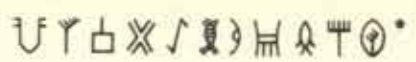

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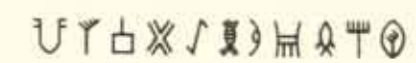

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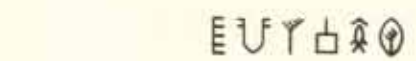

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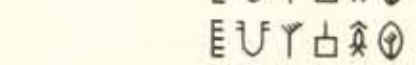

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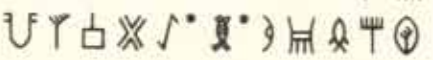

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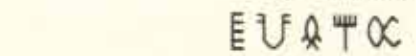

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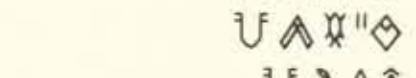

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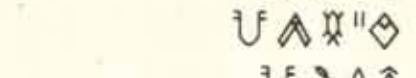

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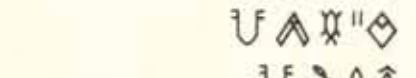

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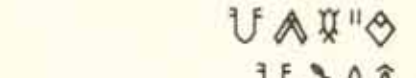

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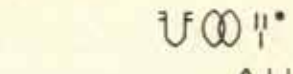

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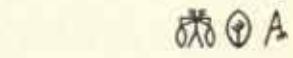

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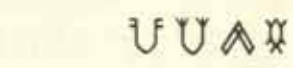

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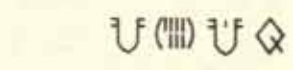

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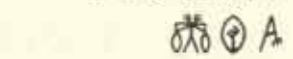

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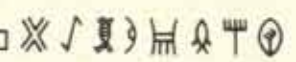

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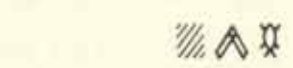

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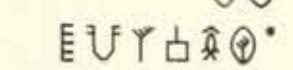

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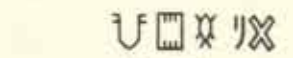

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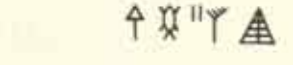

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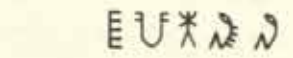

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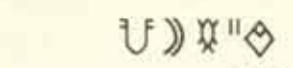

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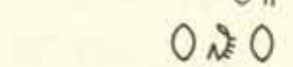

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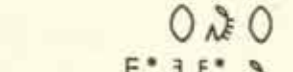

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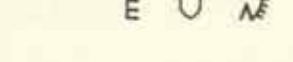

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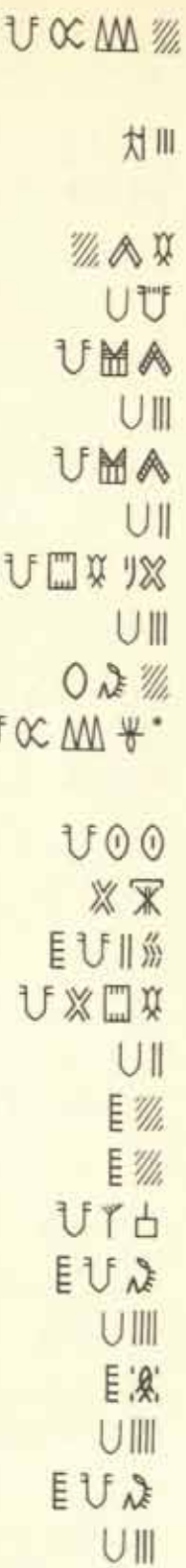

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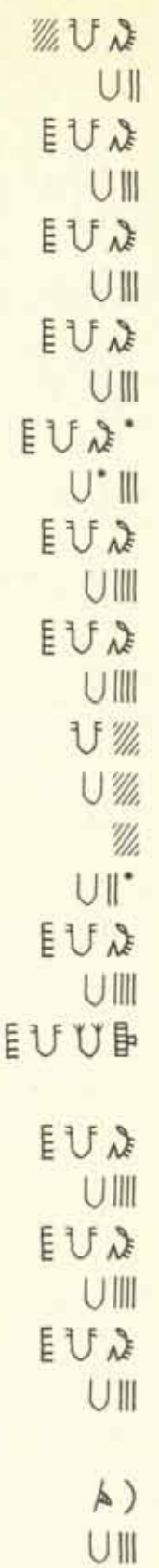

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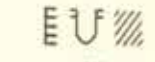

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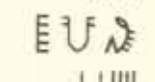

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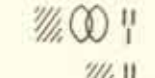

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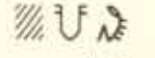

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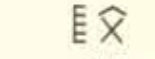

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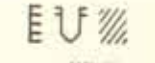

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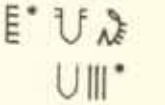

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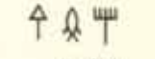

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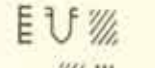

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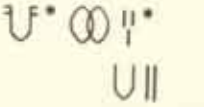

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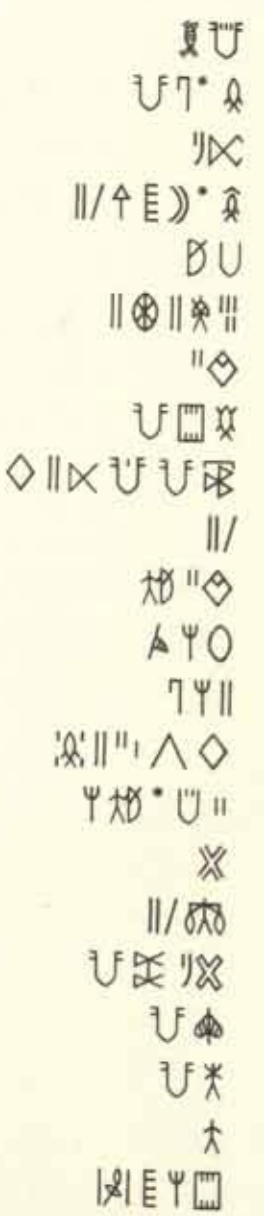

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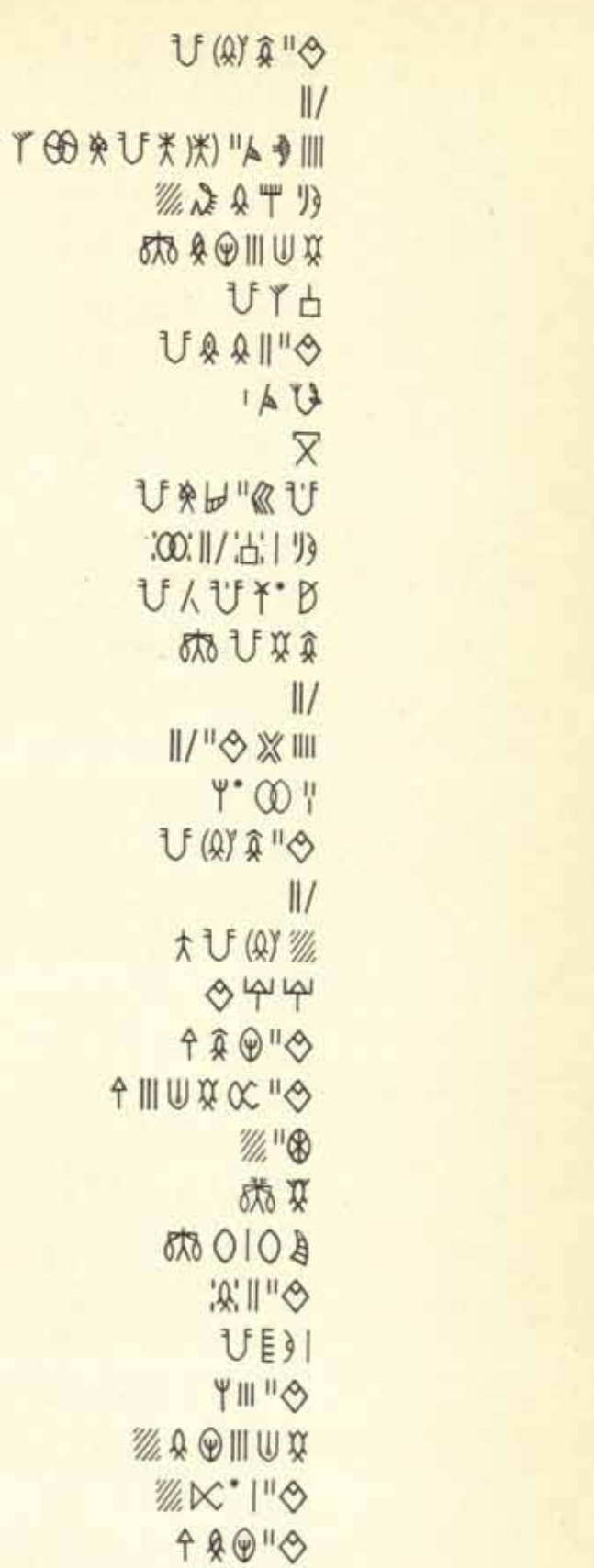

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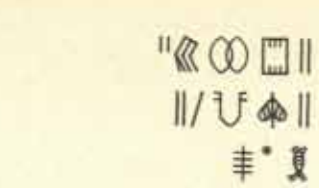

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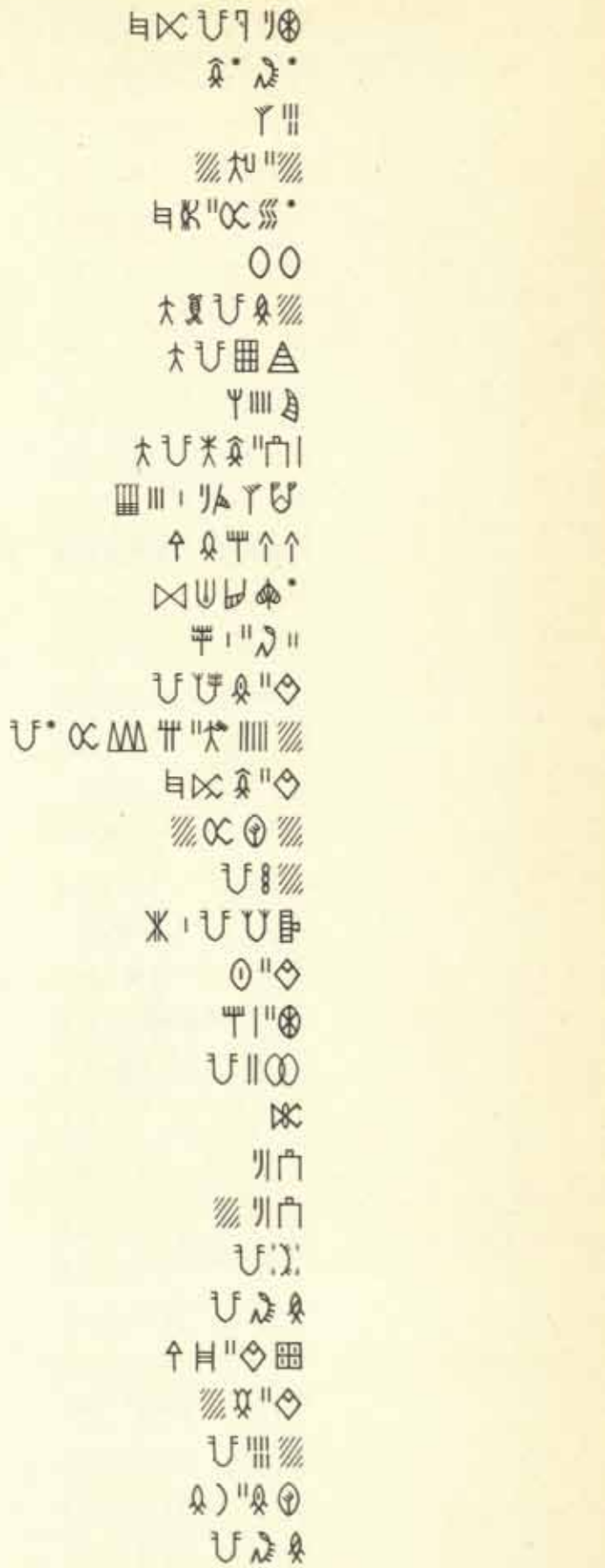

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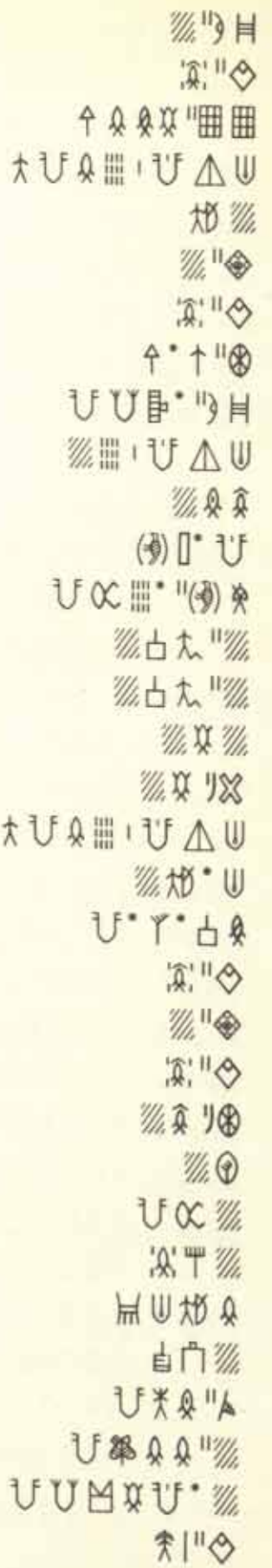

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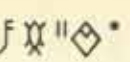
8302	610004	
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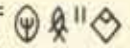
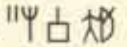
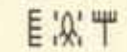
9001	100101	
9011	100101	
9021	110002	
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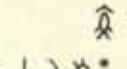
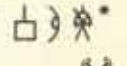
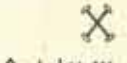
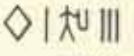
9031	400003	
9041	400001	
9042	400003	
9051	400001	
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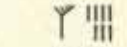
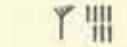
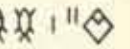
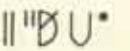
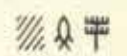
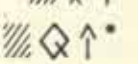
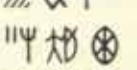
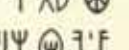
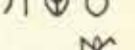
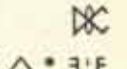
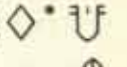
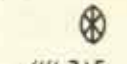
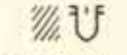
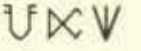
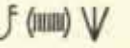
9062	400002	
9063	400002	
9071	100001	
9073	200001	
9084	400001	
9085	400002	
9091	100101	
9092	100011	
	23	
9093	400001	
9094	400003	
9095	400009	
9101	400001	
9102	400001	
9103	400003	
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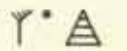
9111	100001	

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Concordance to the Texts

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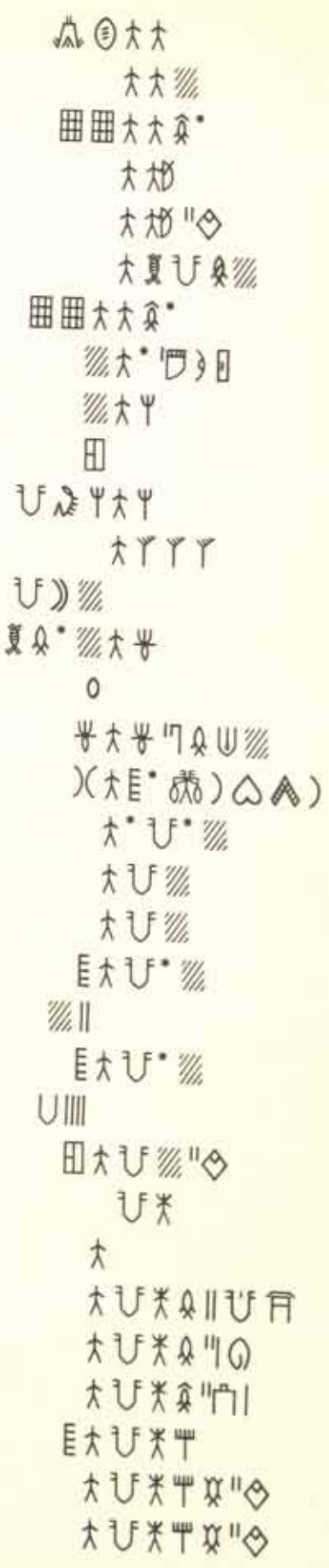

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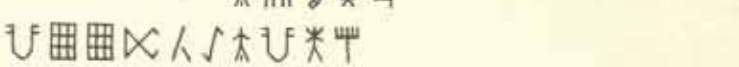
2317 00 

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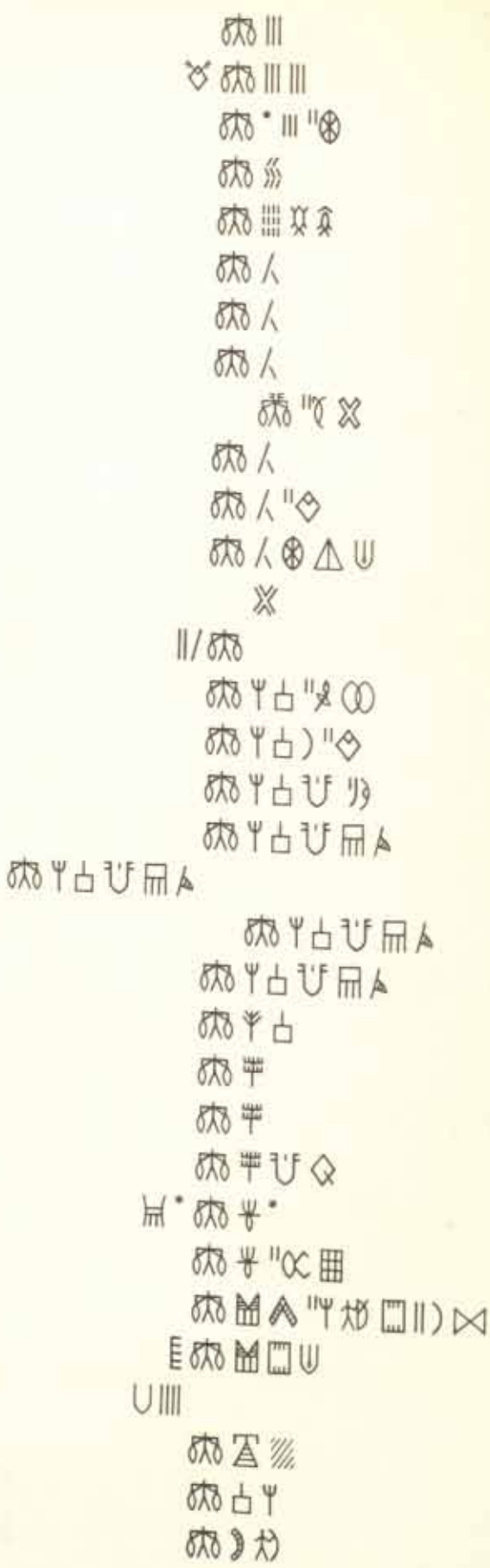

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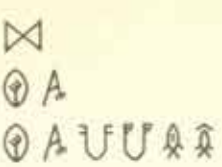

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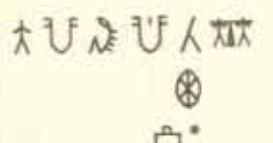

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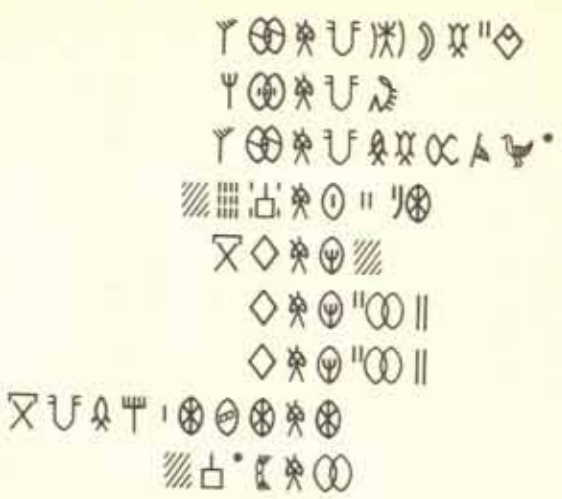

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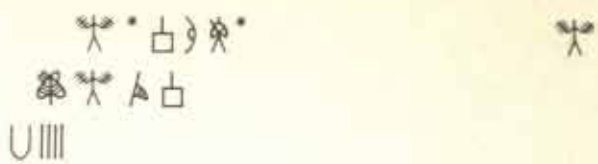

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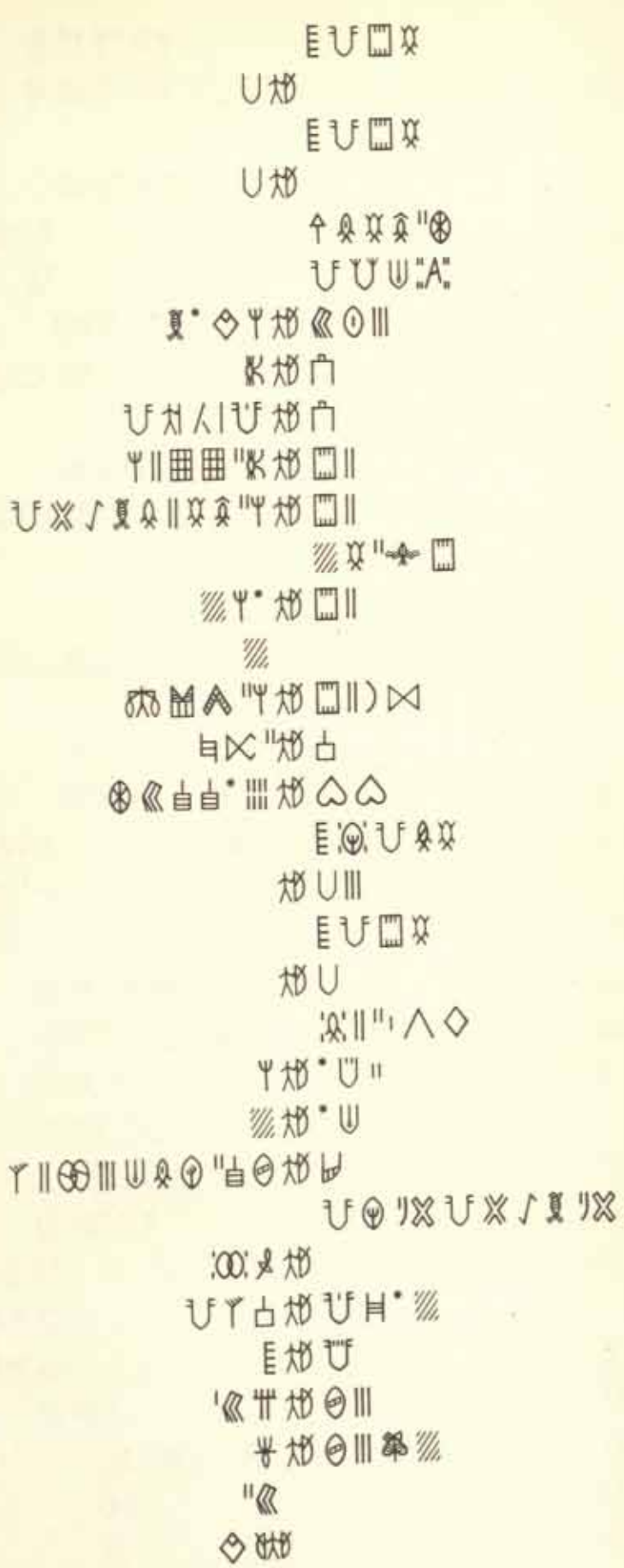

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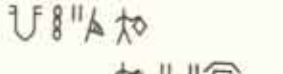

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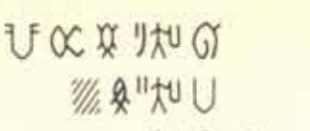

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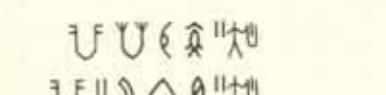

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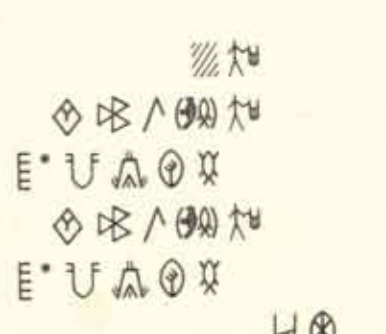

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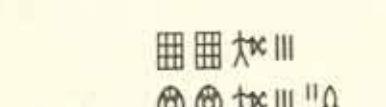

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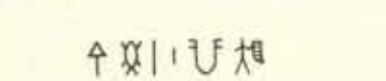

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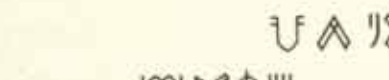

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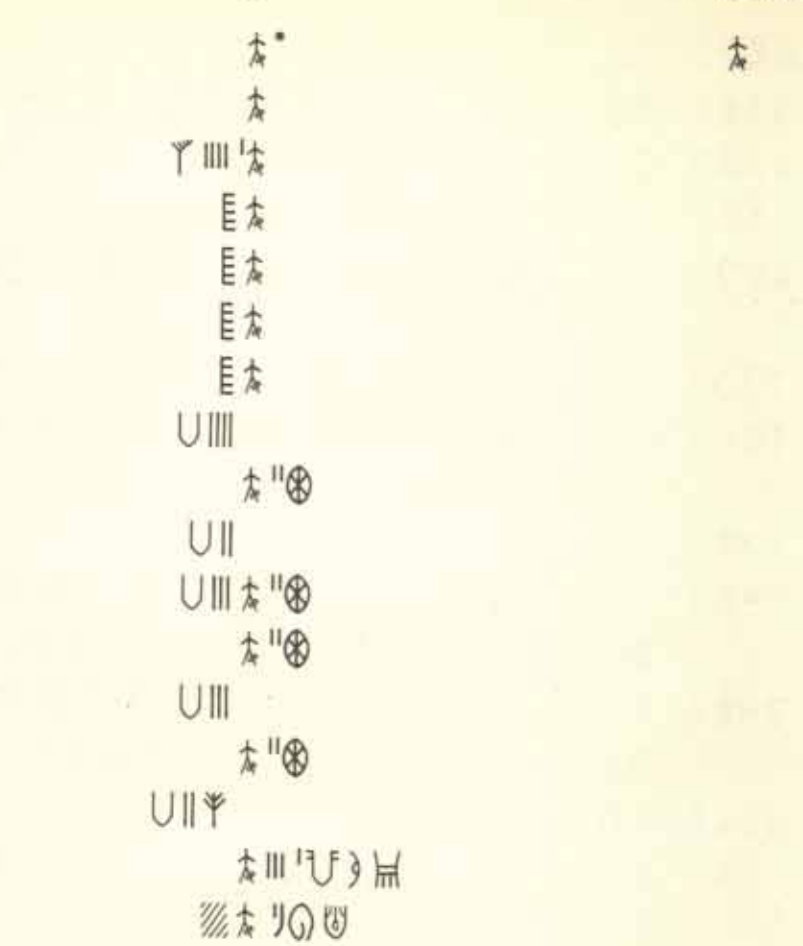

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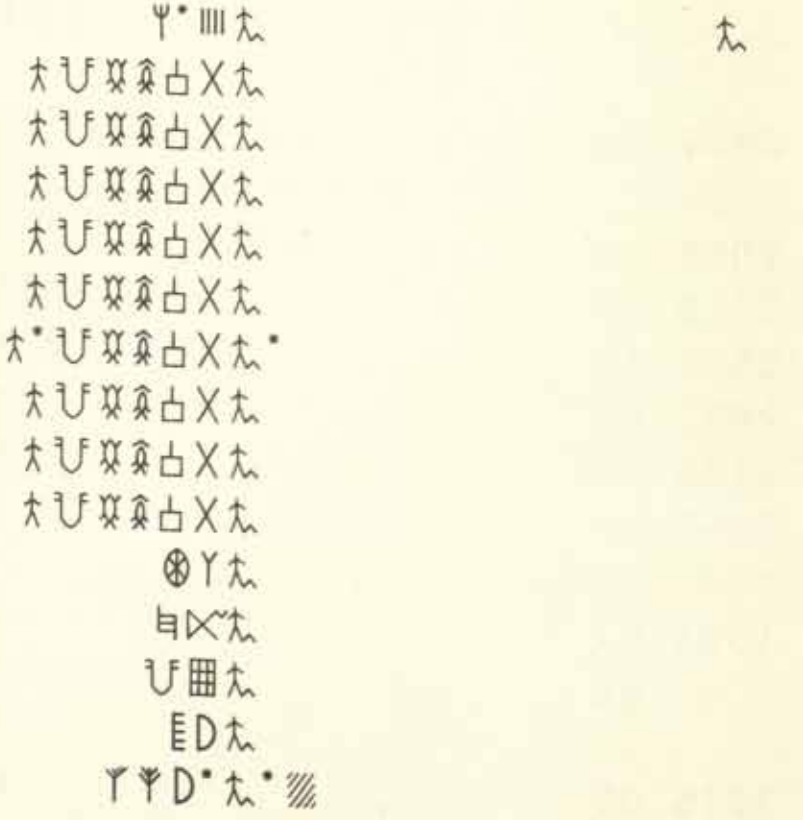

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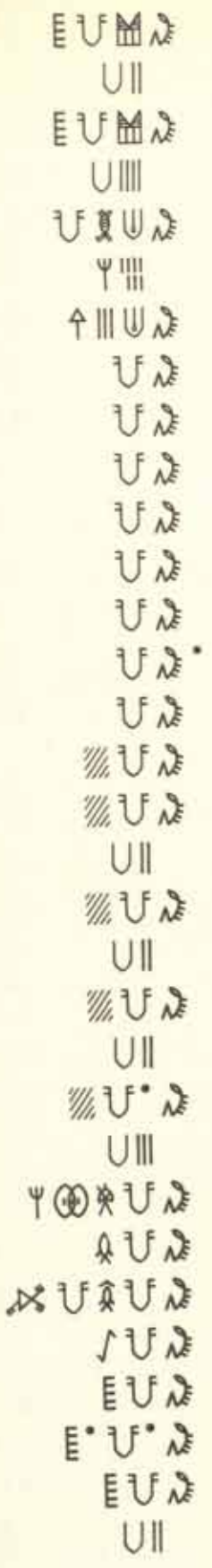

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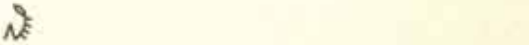
	20	
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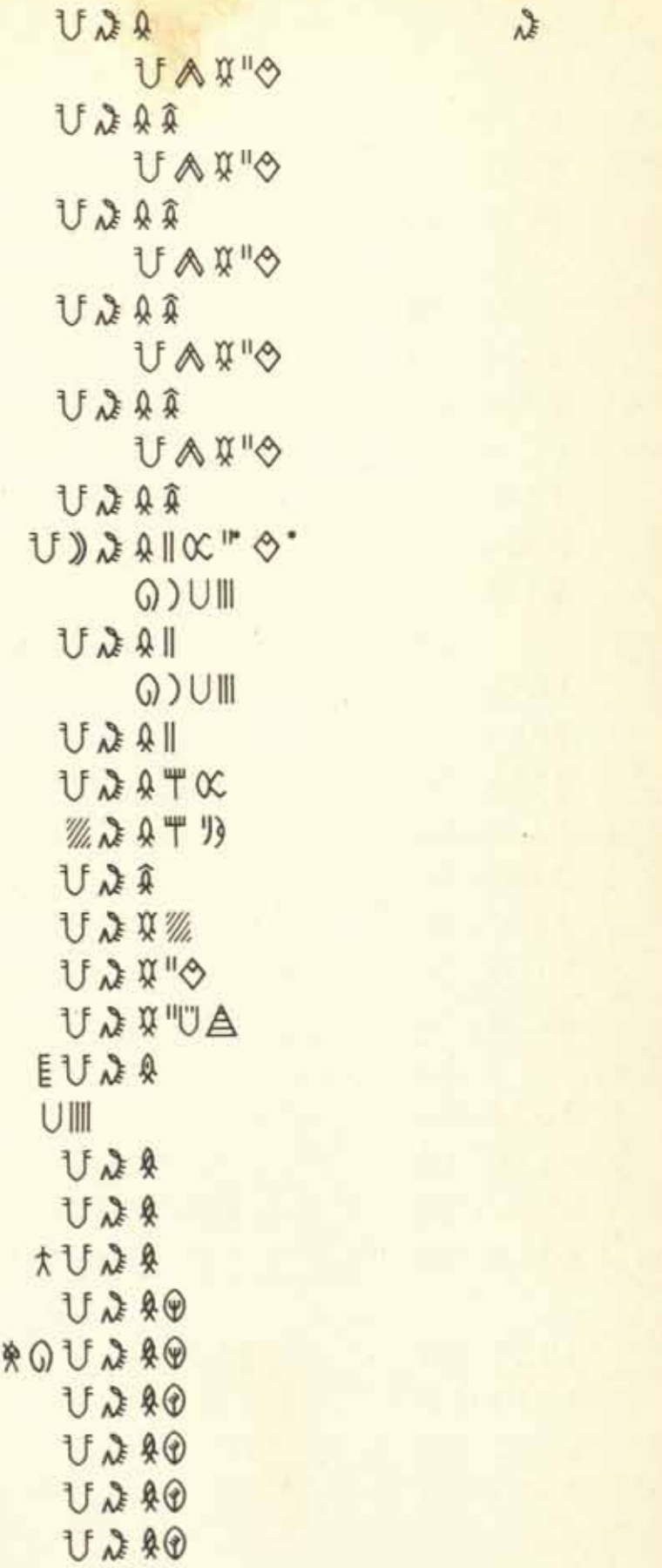

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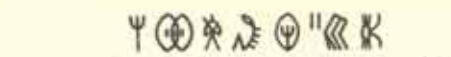
3087 00 
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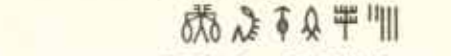
2481 00 

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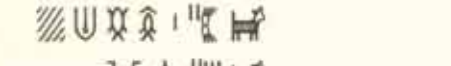
2305 00 
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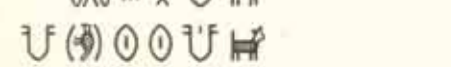
02 
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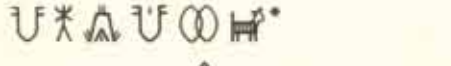
3118 00 
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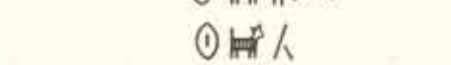
2918 10 
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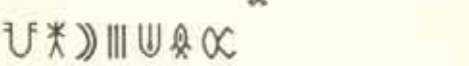
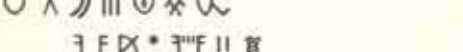
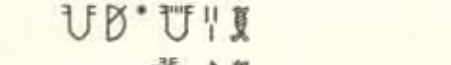
20 
4577 10 
20 
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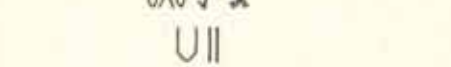
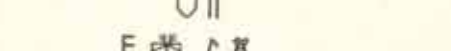
1013 00 
1619 10 
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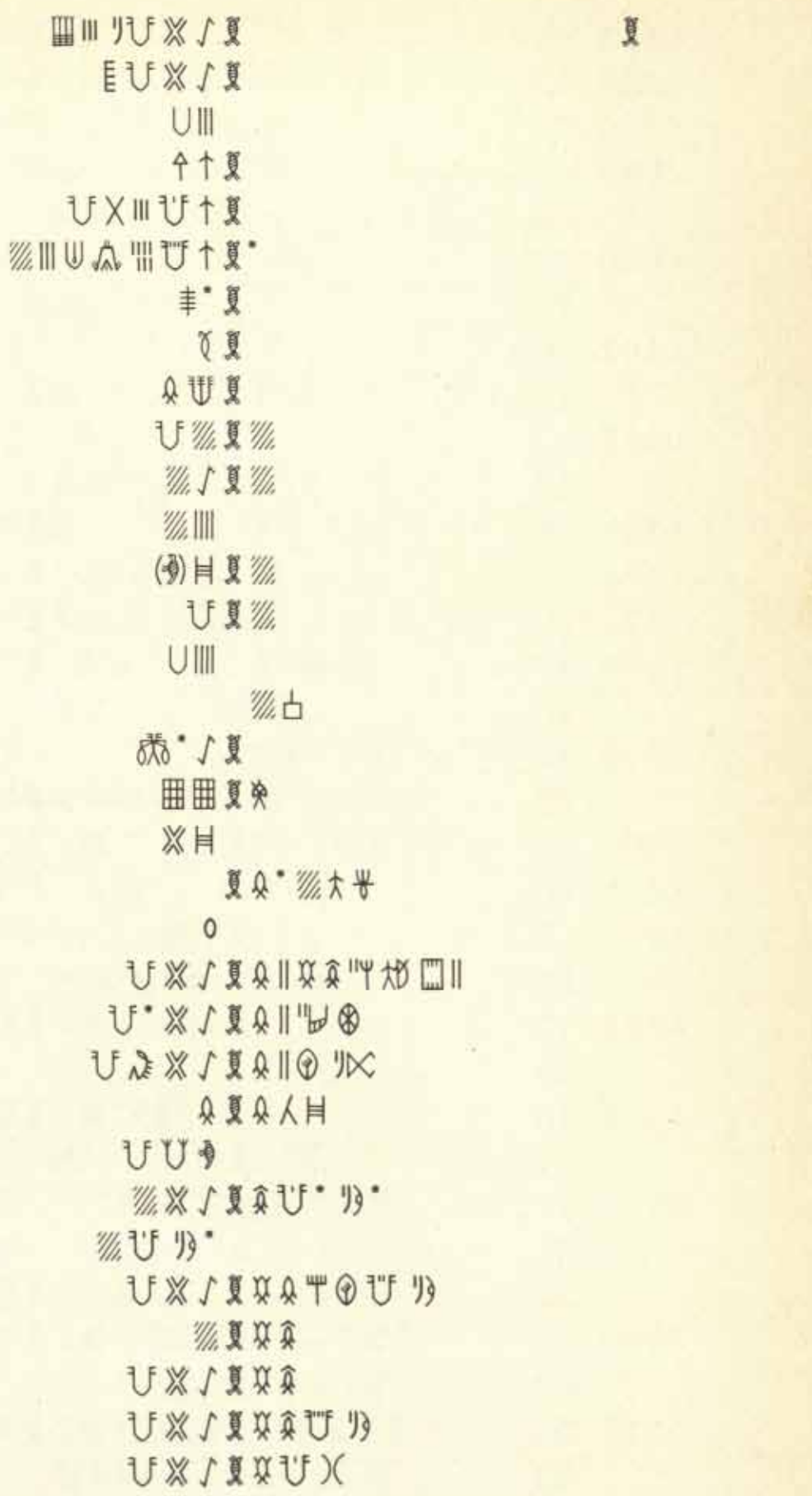
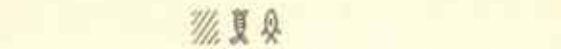
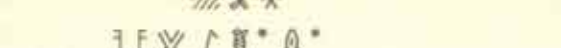
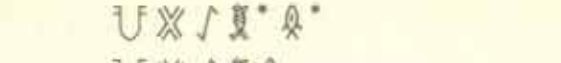
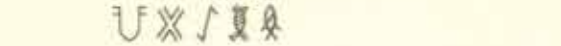


4712 00 
3307 00 
1370 00 
4683 10 
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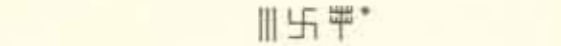
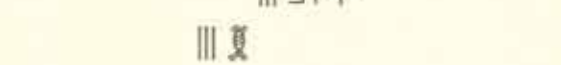
4482 10 
20 
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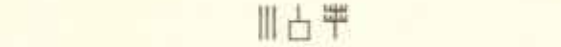
20 
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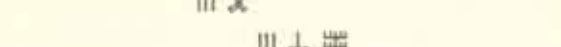
4118 00 
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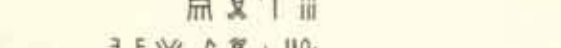
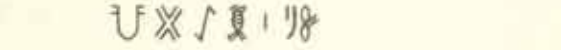
2229 10 
20 
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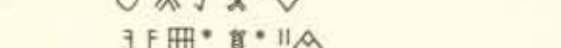
8006 00 
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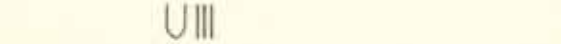
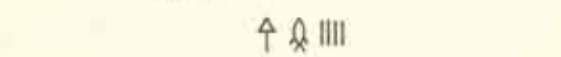
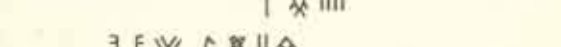
20 
4595 10 
20 
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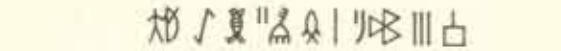
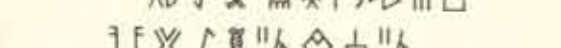
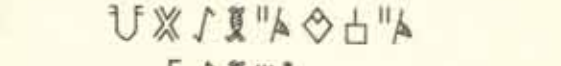
20 
9701 10 
20 
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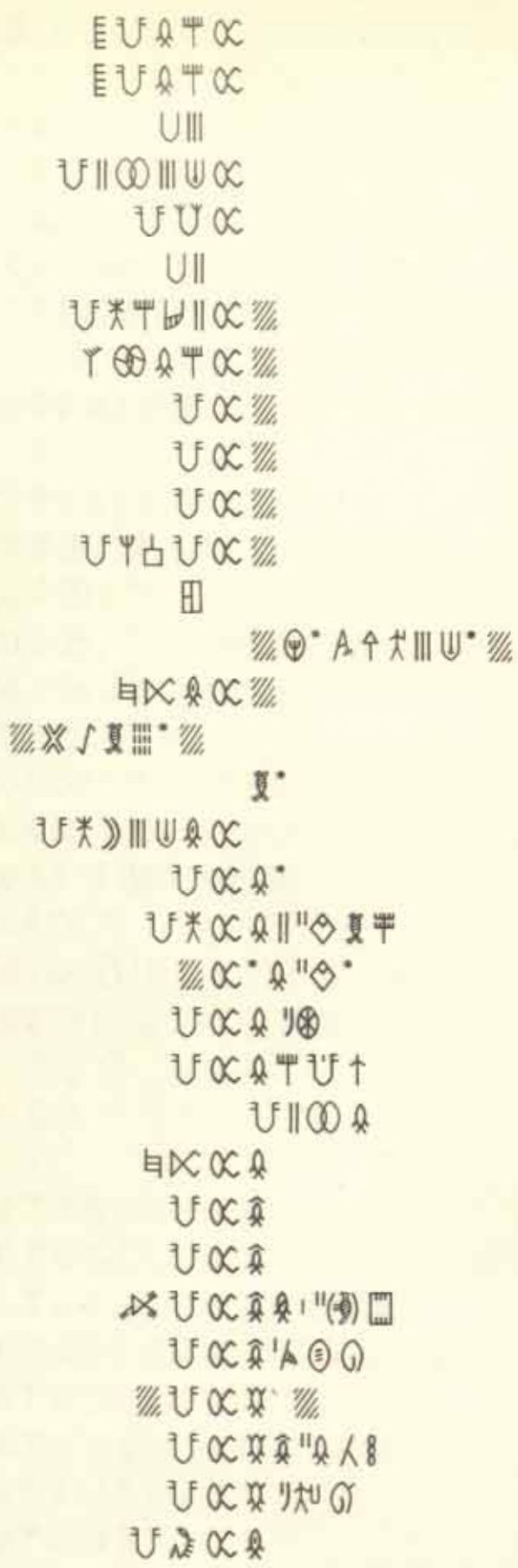

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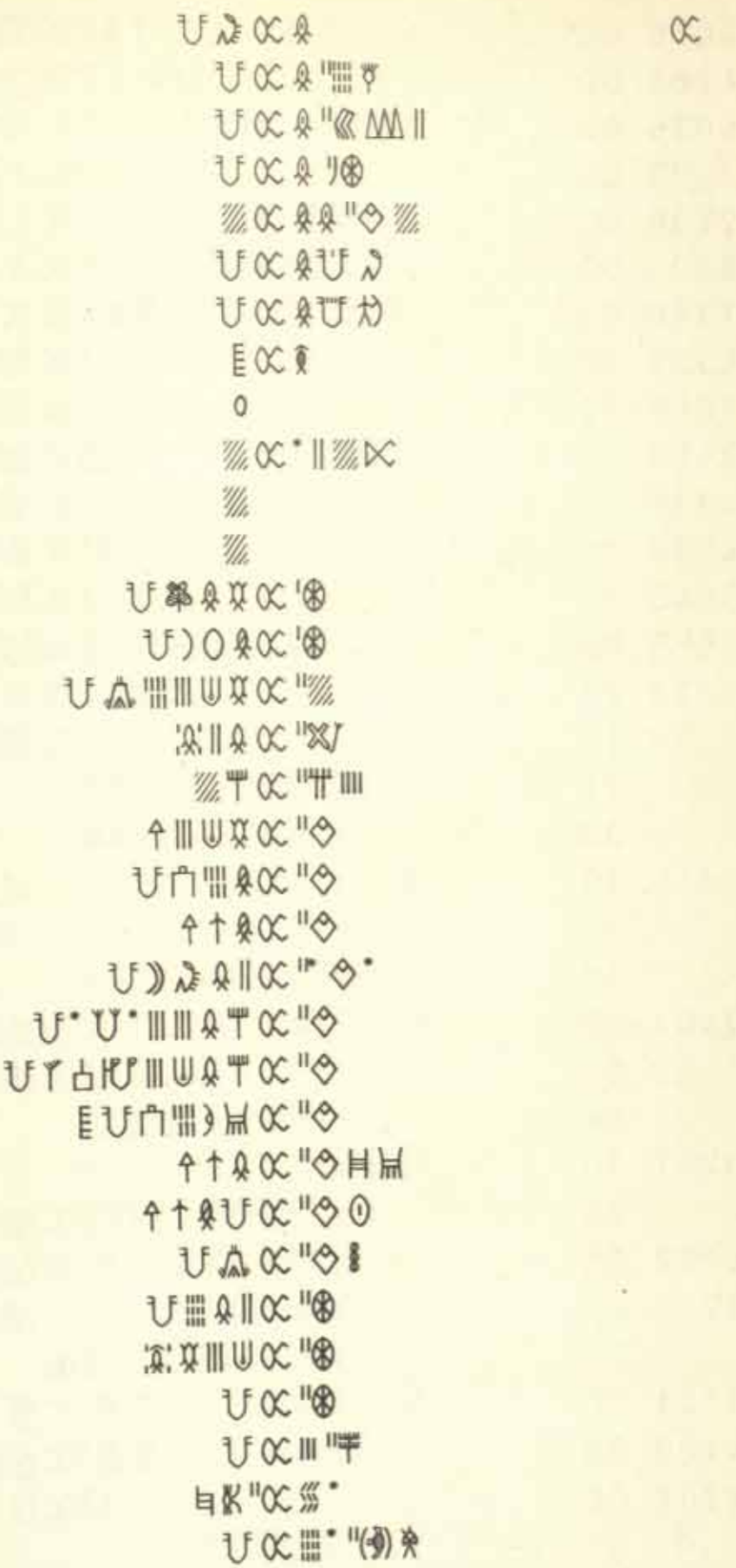

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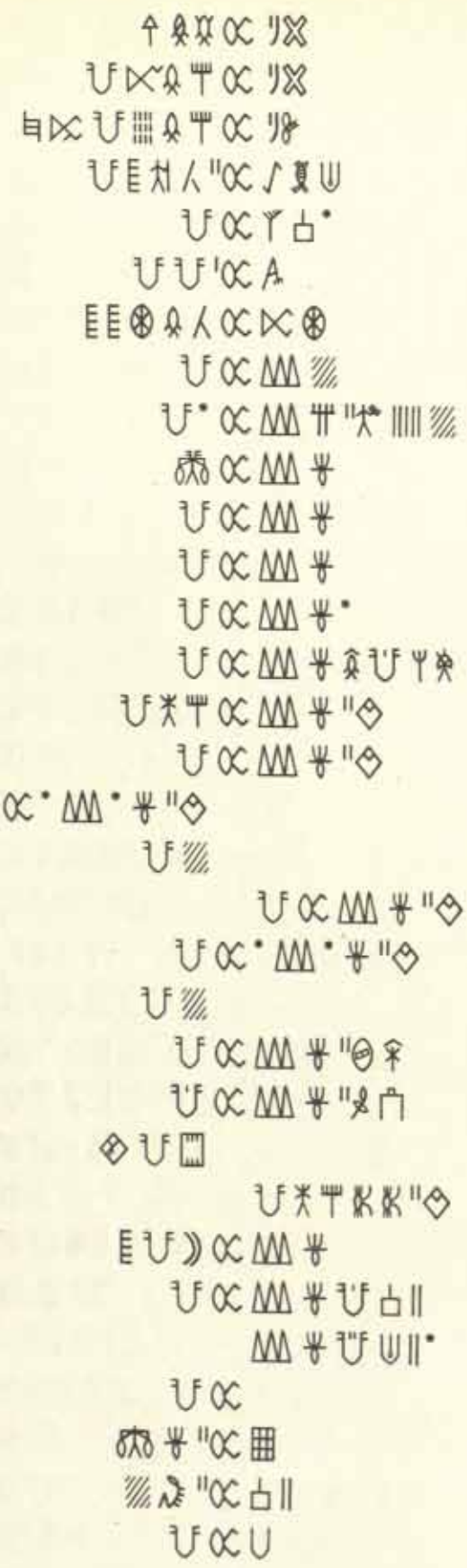

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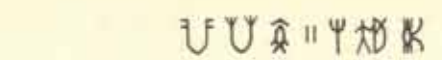
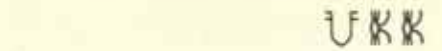
1060 00 

1083 00 

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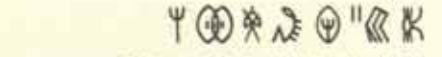
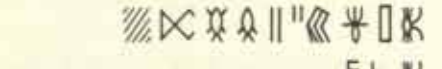
3087 00 

1047 00 

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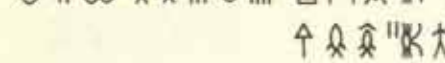
4271 00 

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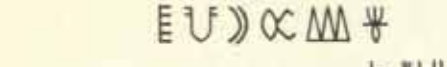
3232 10 

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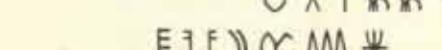
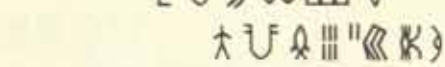
7074 00 

3232 10 

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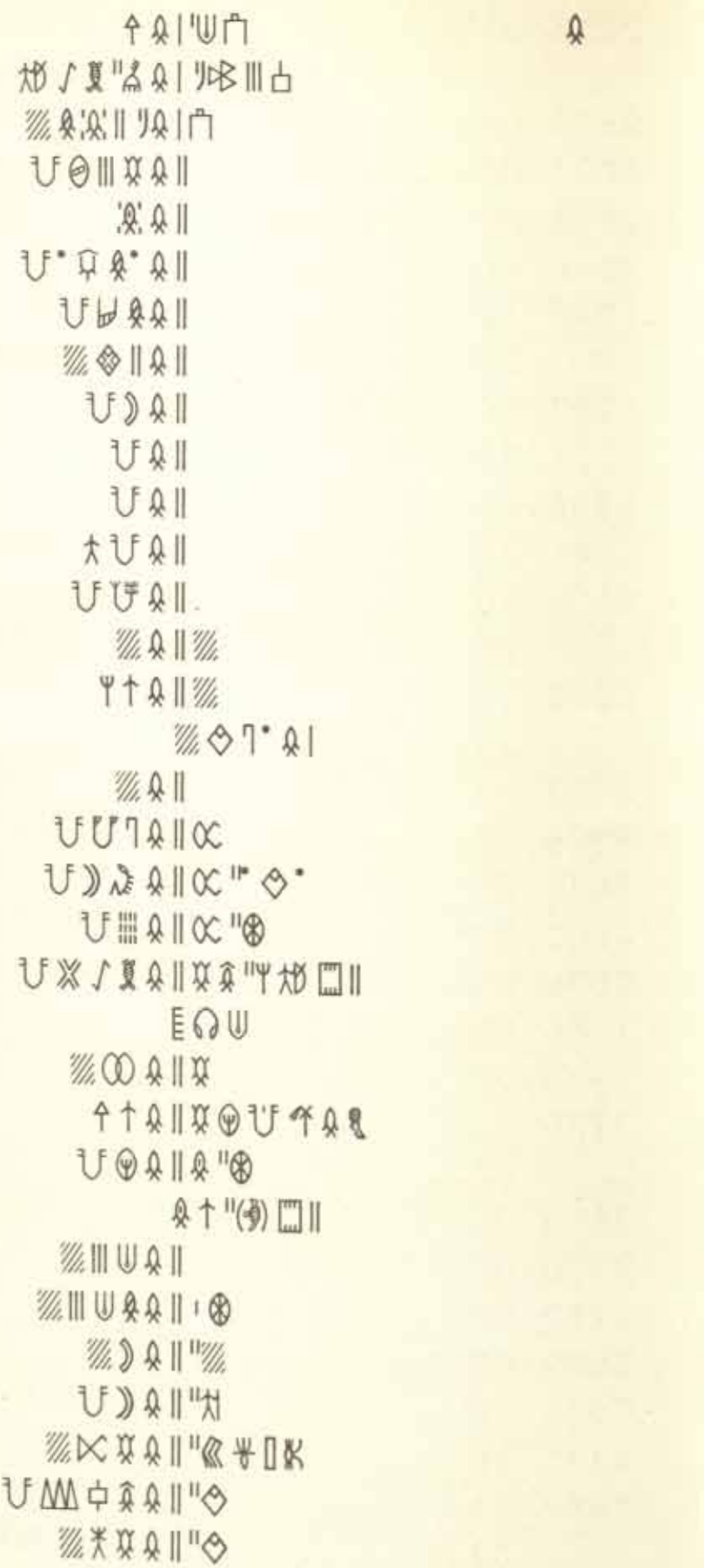

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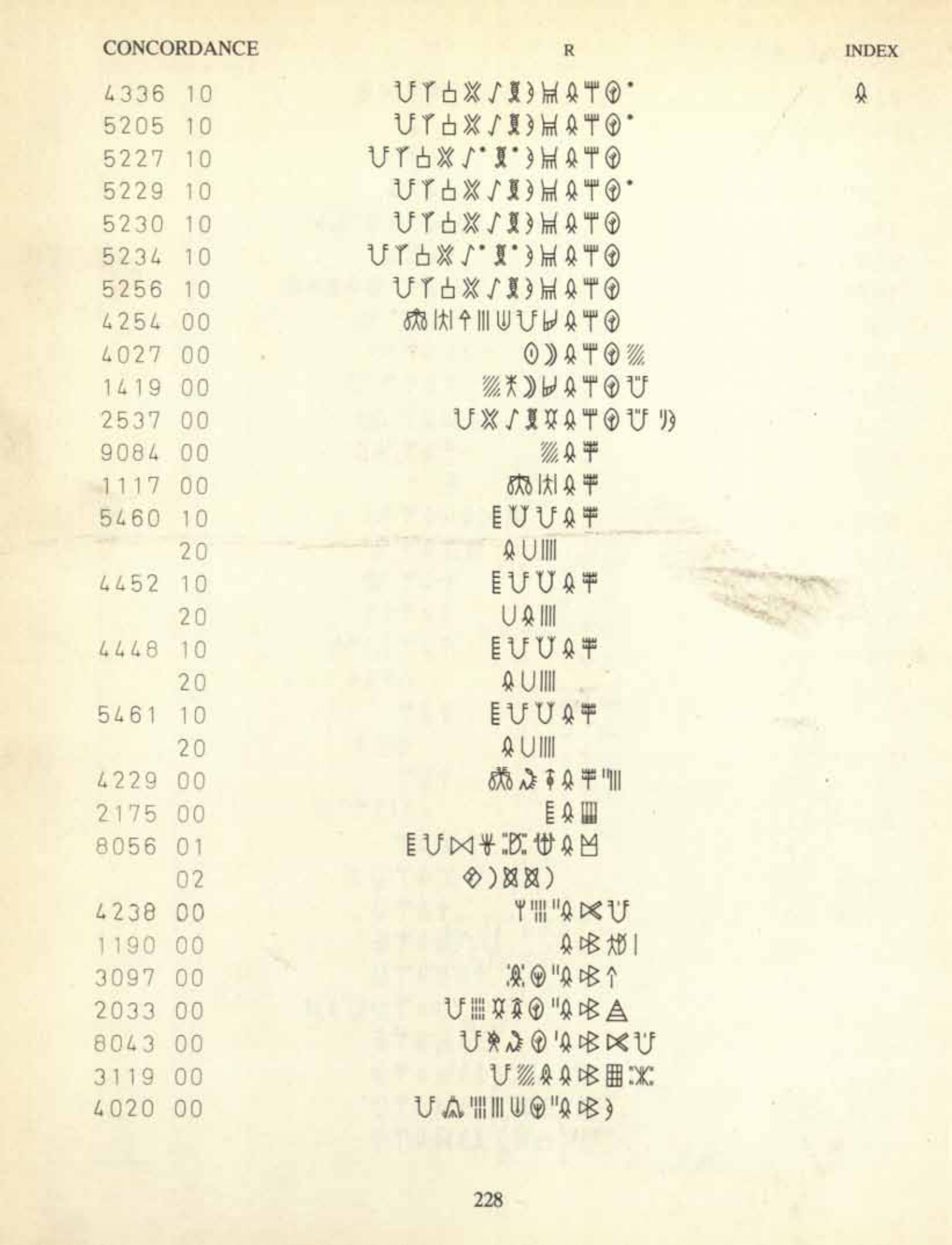

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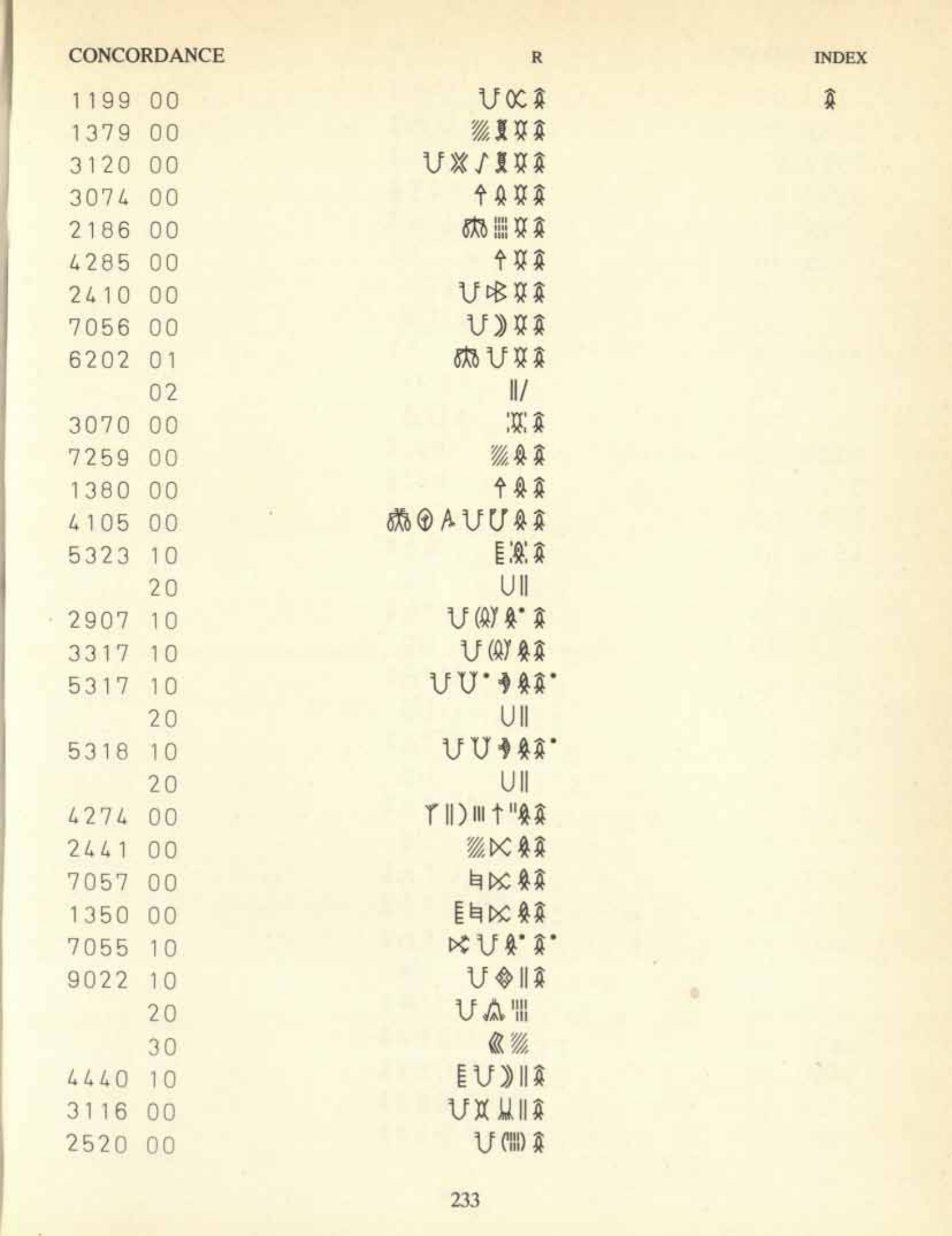

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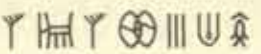
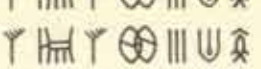
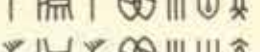
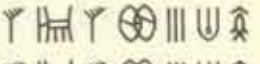
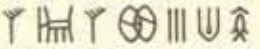
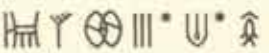
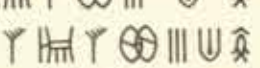
3304 10 
3312 10 
3331 10 
3337 00 
3354 10 
3355 10 
3381 10 
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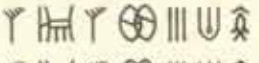
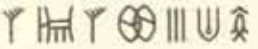
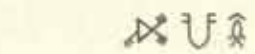
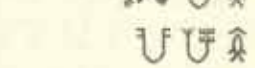
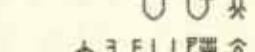
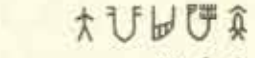
2469 00 
1374 00 
3102 00 
3508 00 
1213 00 
1323 00 
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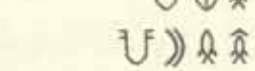
3162 00 
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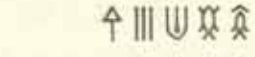
4288 00 
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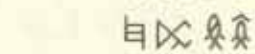
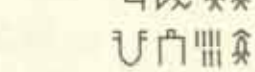
1299 00 
7070 00 
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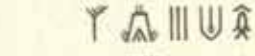
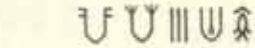
4028 00 
2054 00 
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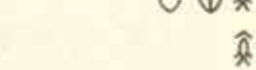
2019 00 
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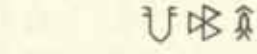
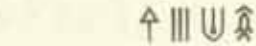
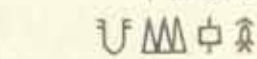
4848 00 
1320 00 
4467 00 
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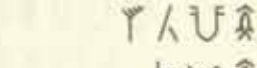
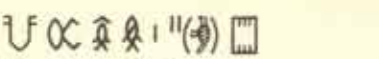
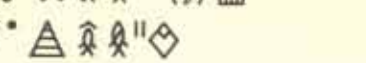
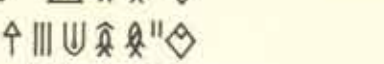
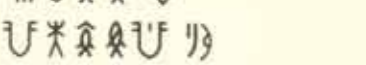
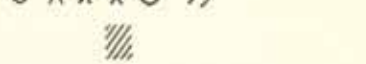
3016 00 

1306	00	
1317	00	
1326	00	
1024	00	
2936	10	
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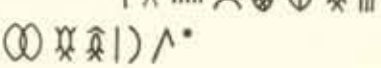
	20	
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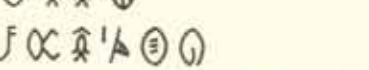
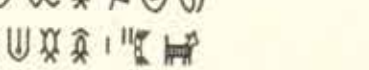
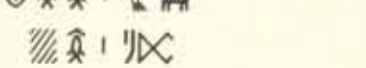
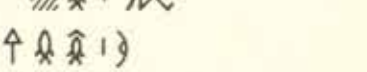
4072	00	
1544	00	
8219	00	
1321	01	
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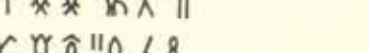
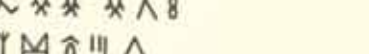
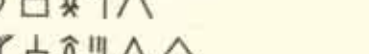
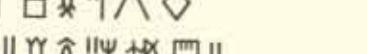
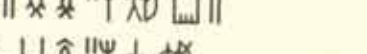
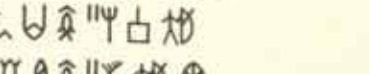
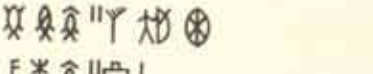
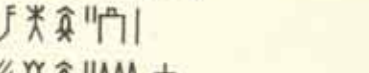
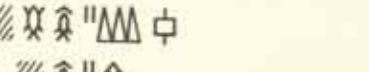
3089	00	
1602	00	
5090	00	
1087	00	
9011	00	
2271	00	
7080	00	
4153	00	
2136	00	
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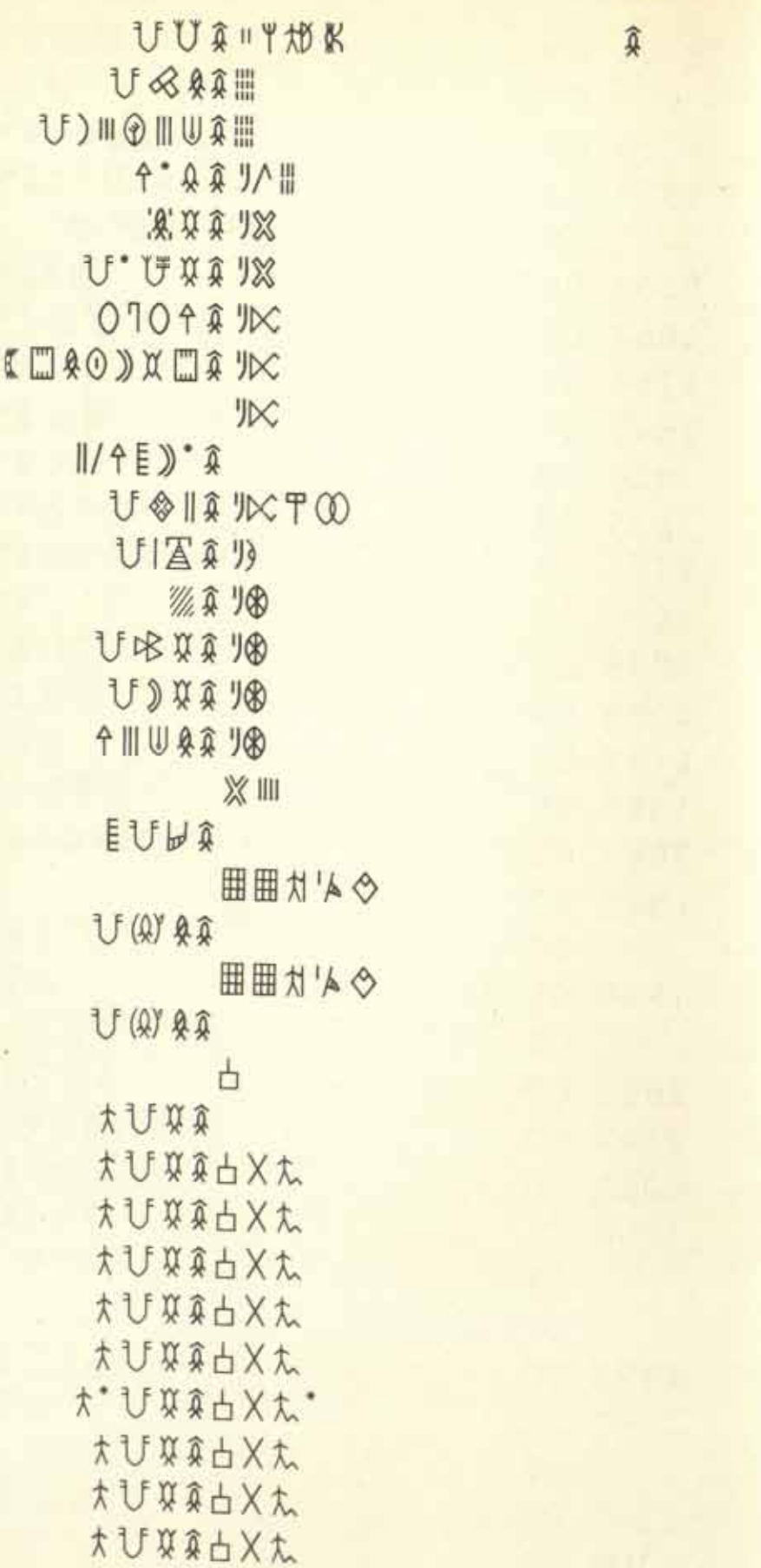

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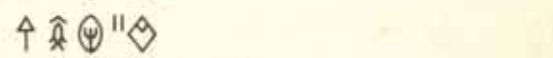
1540 00 

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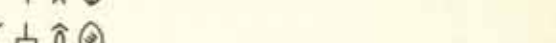
3396 00 

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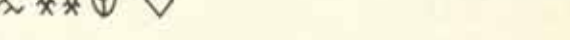
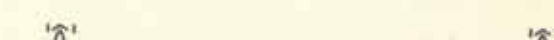
2033 00 

1006 00 

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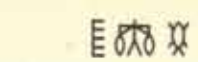
4489 10	
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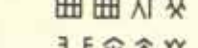
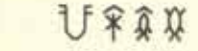
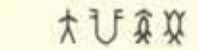
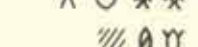
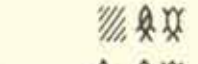
1320 00	
4467 00	
1313 00	
4140 00	
1053 00	
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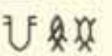
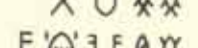
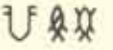
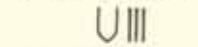
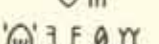
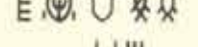
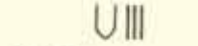
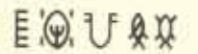
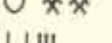
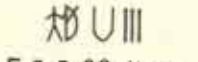
20	
4702 10	
20	
5283 10	
20	
1529 00	
1530 00	
5257 10	
20	
5334 10	
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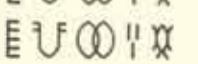
4321 10	
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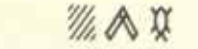
5252 10	
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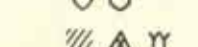
5289 10	
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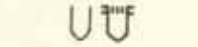
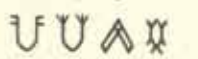
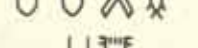
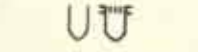
1198 00	
2457 00	
5300 00	
3165 00	
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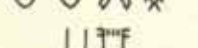
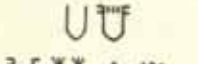
2047 00	
2161 00	

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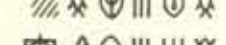
6127	00	
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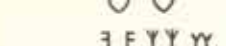
2570	00	
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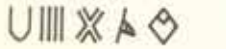
2946	00	
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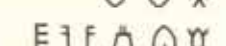
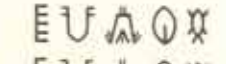
1137	00	
2104	00	
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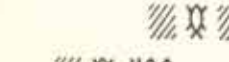
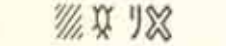
	02	
7246	00	
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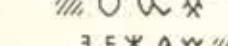
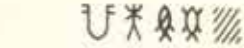
	20	
5291	10	
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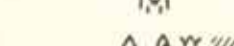
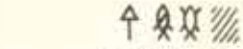
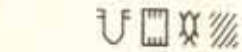
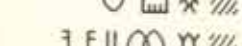
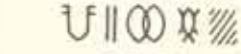
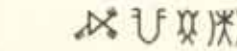
1447	00	
4354	10	
	20	
4371	10	
	20	
5114	00	
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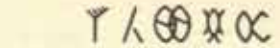
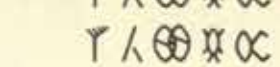
2910	10	
3322	10	
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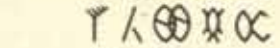
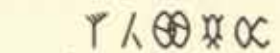
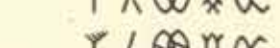
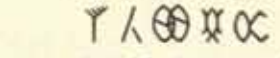
3372	10	
3374	10	
4016	00	
1557	00	
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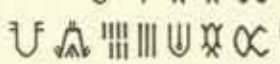
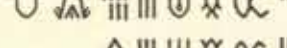
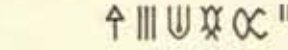
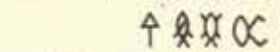
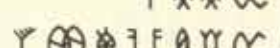
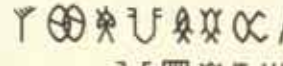
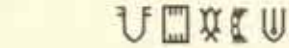
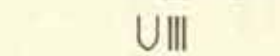
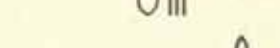
4056	00	
5074	00	
4345	10	
	20	
4576	10	
	20	
	30	
2052	00	
2260	00	
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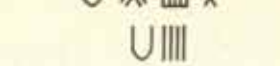
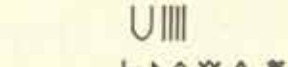
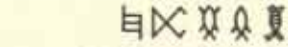
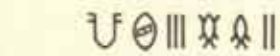
1014	00	
1324	00	
1079	00	
4263	00	
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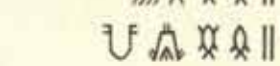
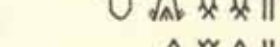
1379	00	
3120	00	
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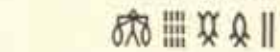
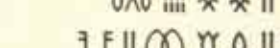
2186	00	
4285	00	
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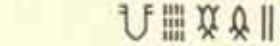
7056	00	

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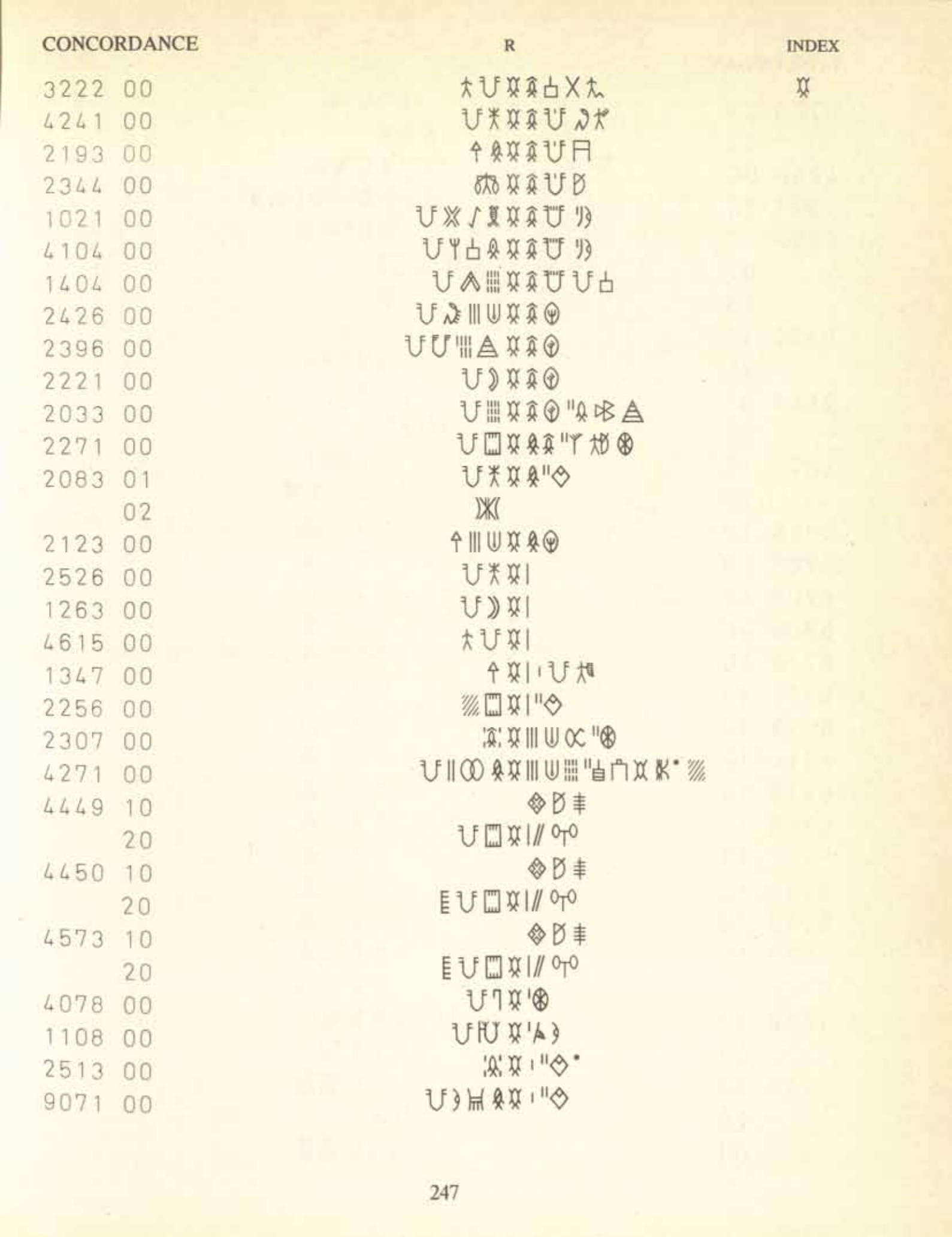

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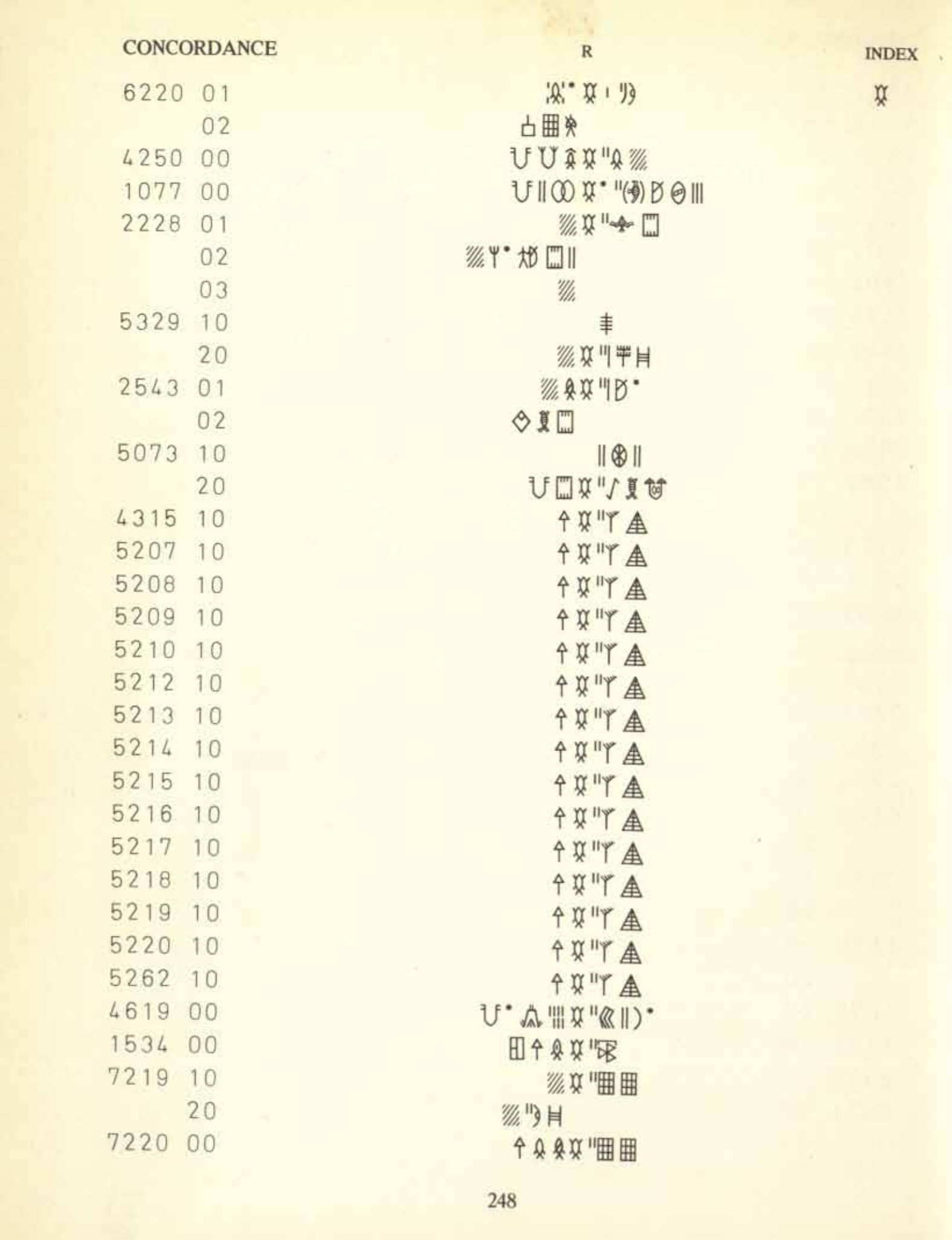

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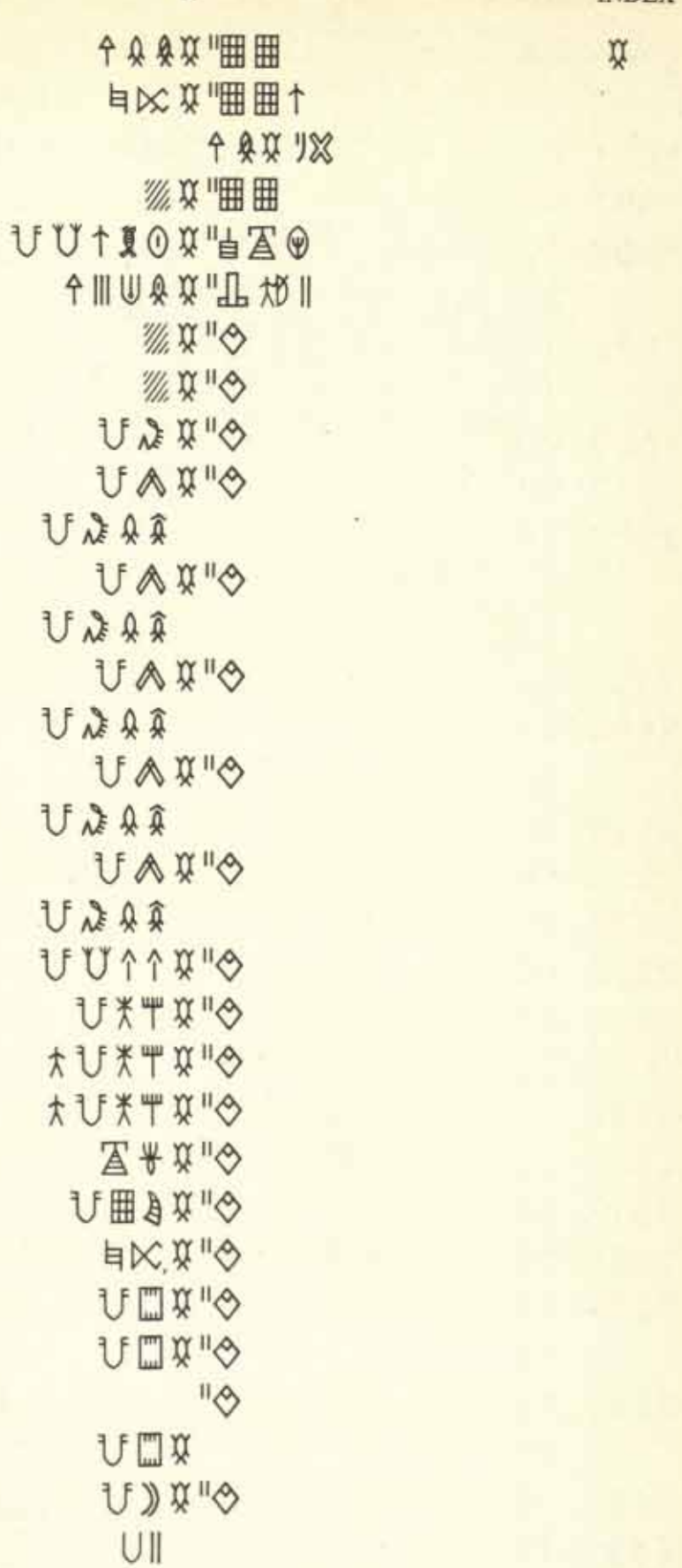

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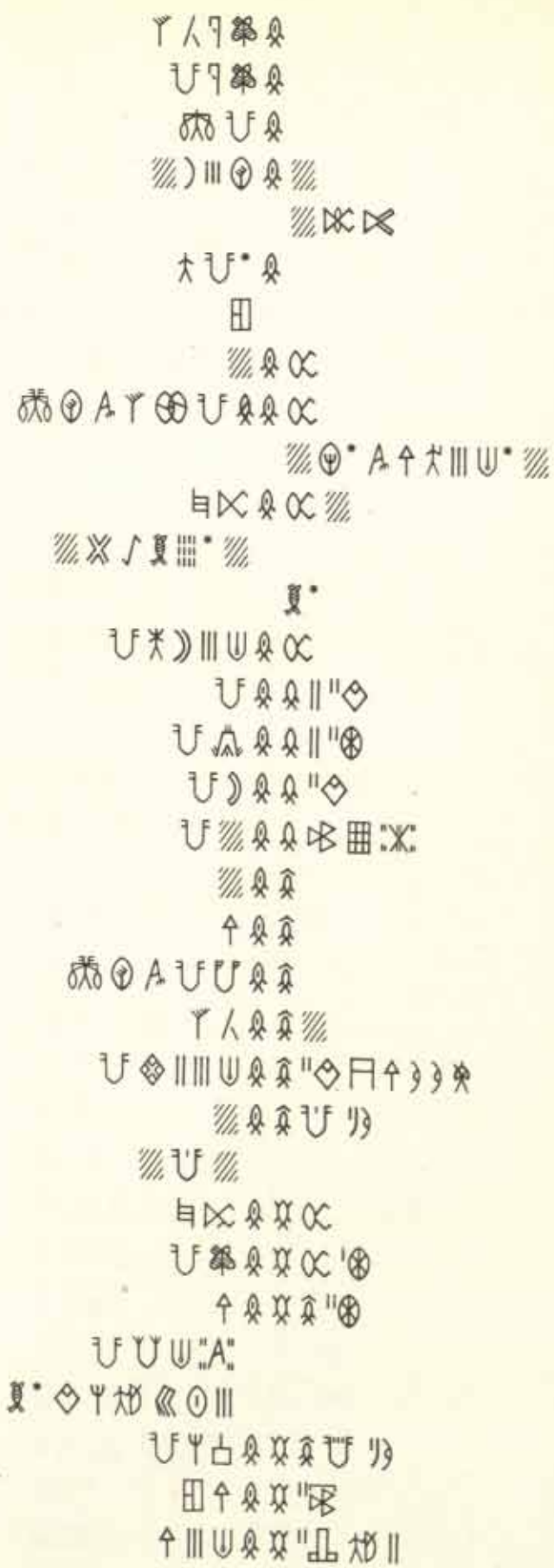

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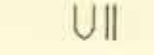
4374 10 
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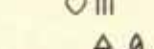
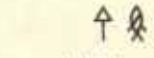
20 
4428 10 
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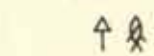
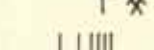
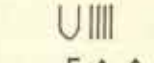
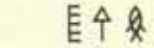
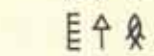
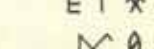
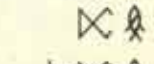
4659 10 
4664 10 
4676 10 
5469 00 
4360 10 
20 
4499 10 
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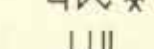
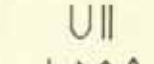
20 
5478 10 
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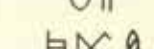
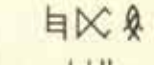
20 
2409 00 
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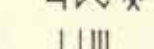
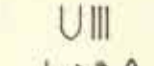
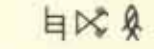
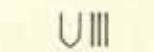
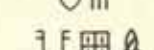
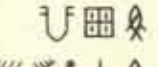
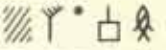
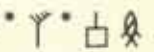
20 
1208 00 
1075 00 
4013 00 
2110 00 
1251 00 
2534 00 
2196 00 

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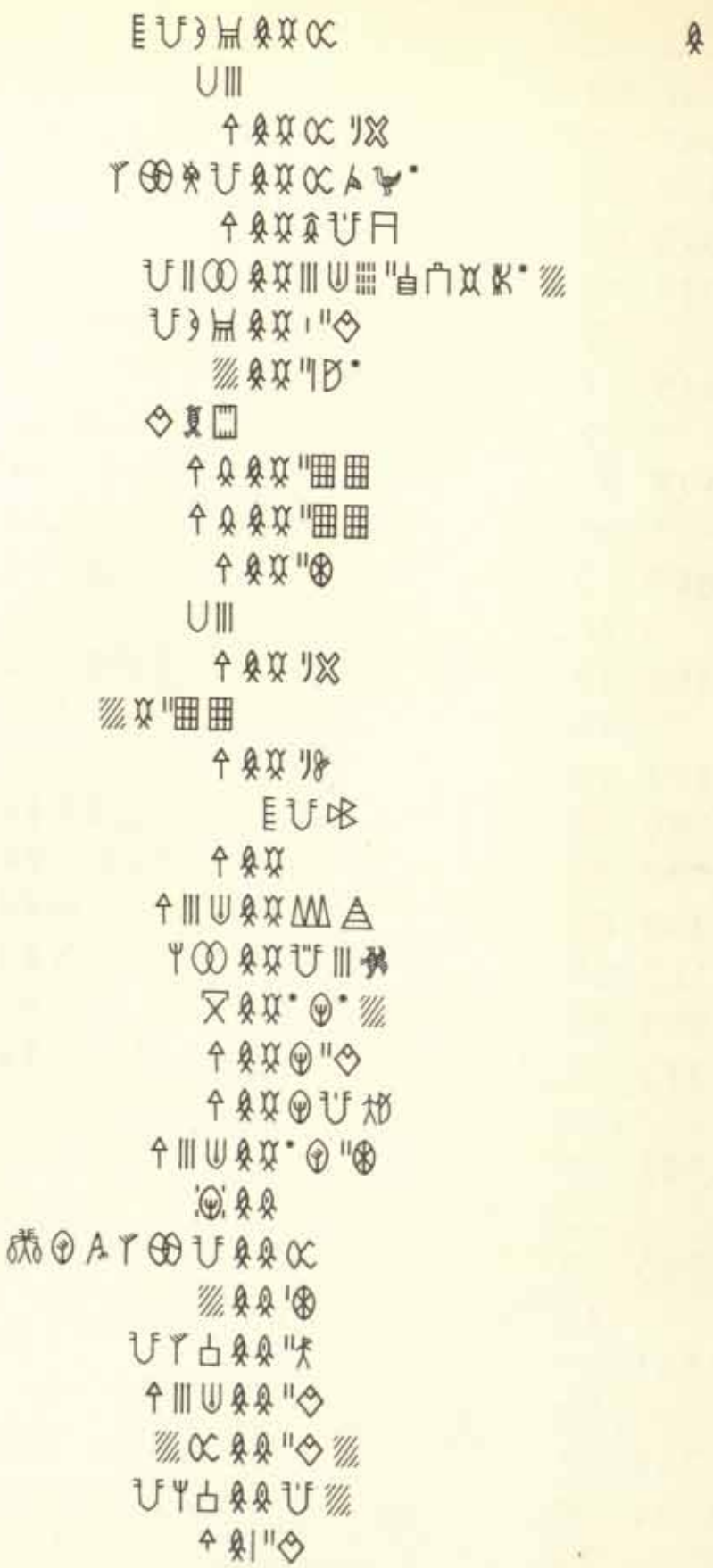

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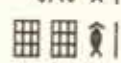
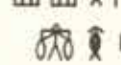

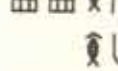
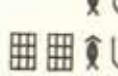

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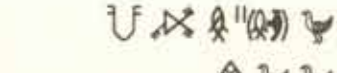

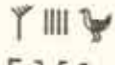
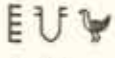

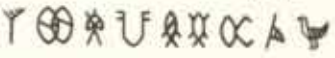
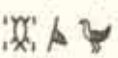
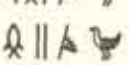
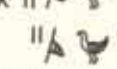

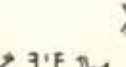
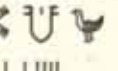
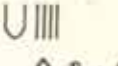

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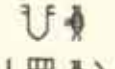

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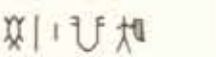
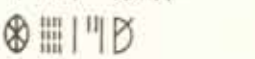
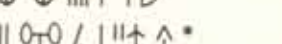
1347	00	
2427	00	
2581	00	
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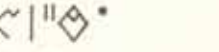
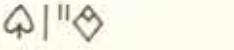
9121	00	
4316	10	
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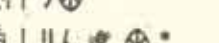
1602	00	

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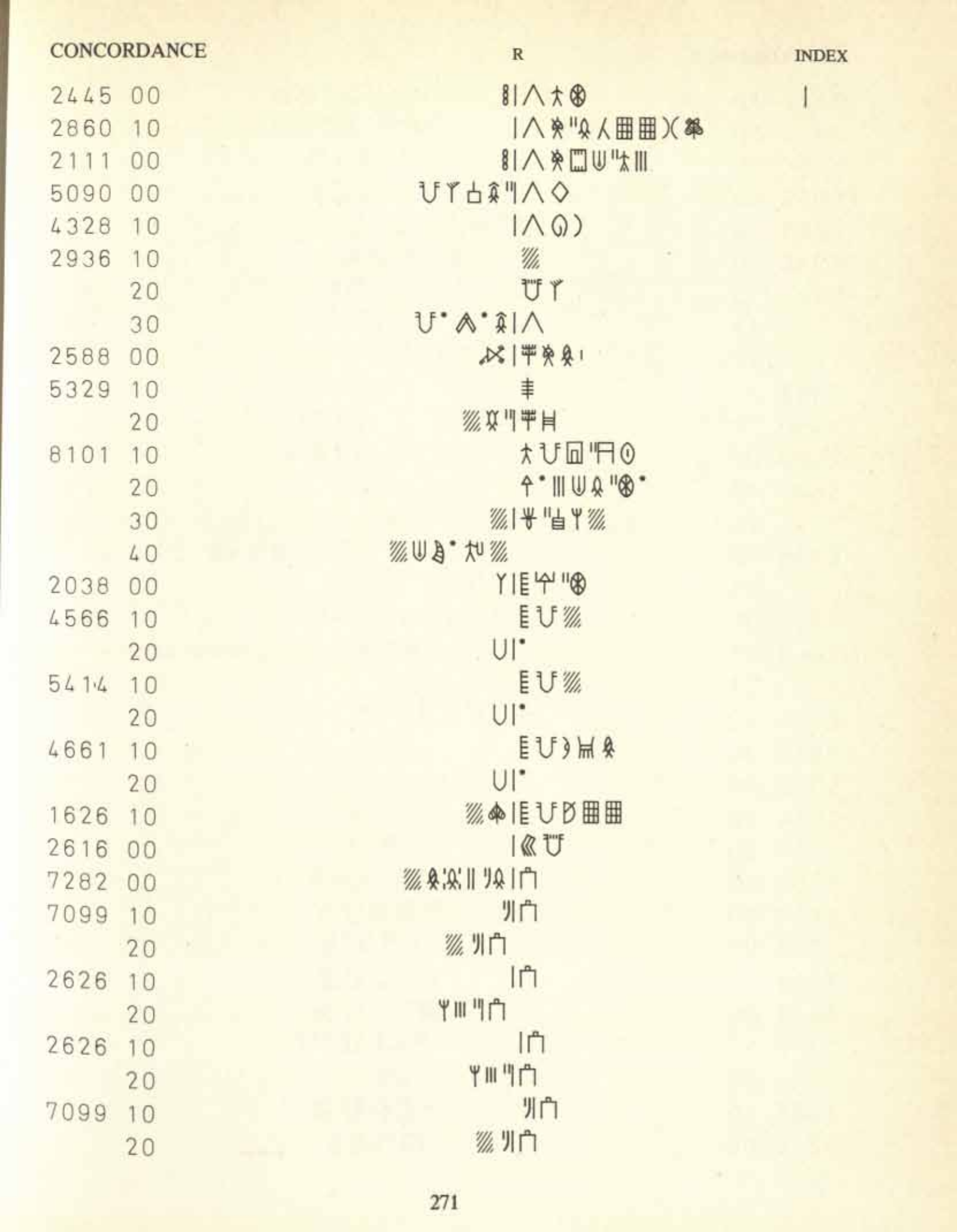

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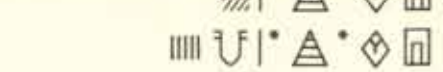
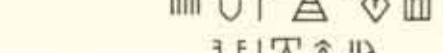
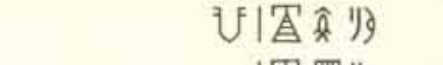
2843	10	
5064	00	
8009	00	
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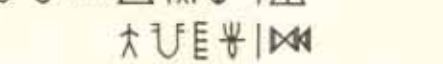
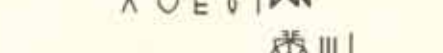
2587	10	
	21	
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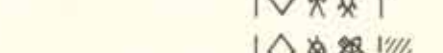
	20	
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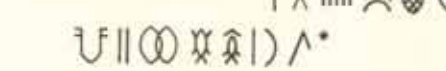
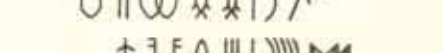
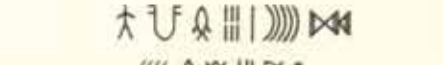
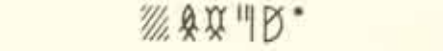
	02	
2427	00	
8016	00	
4028	00	
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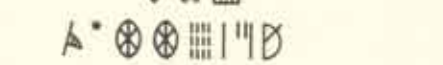
5077	00	
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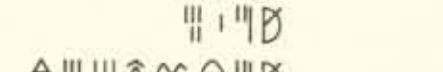
2612	00	
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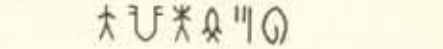
3085	00	
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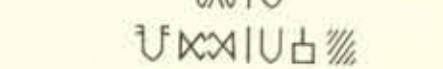
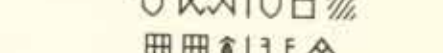
4718	10	
	20	
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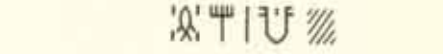
6210	00	

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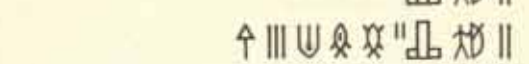
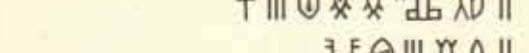
2260 00 
2452 00 
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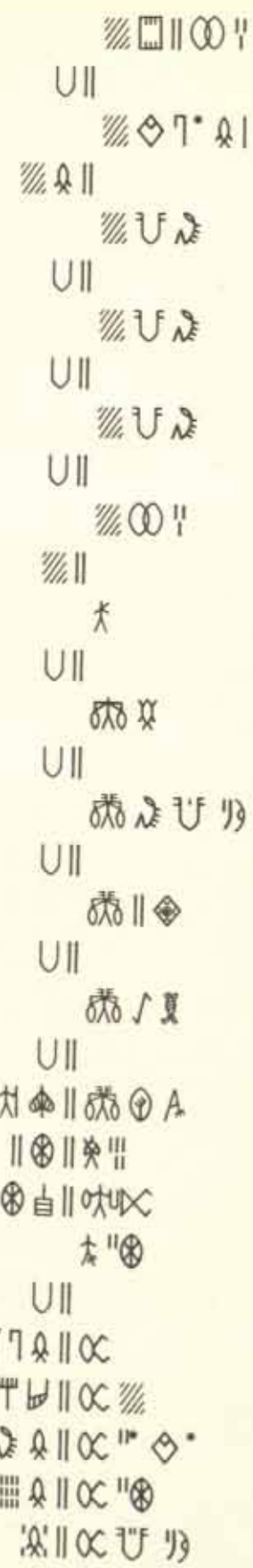

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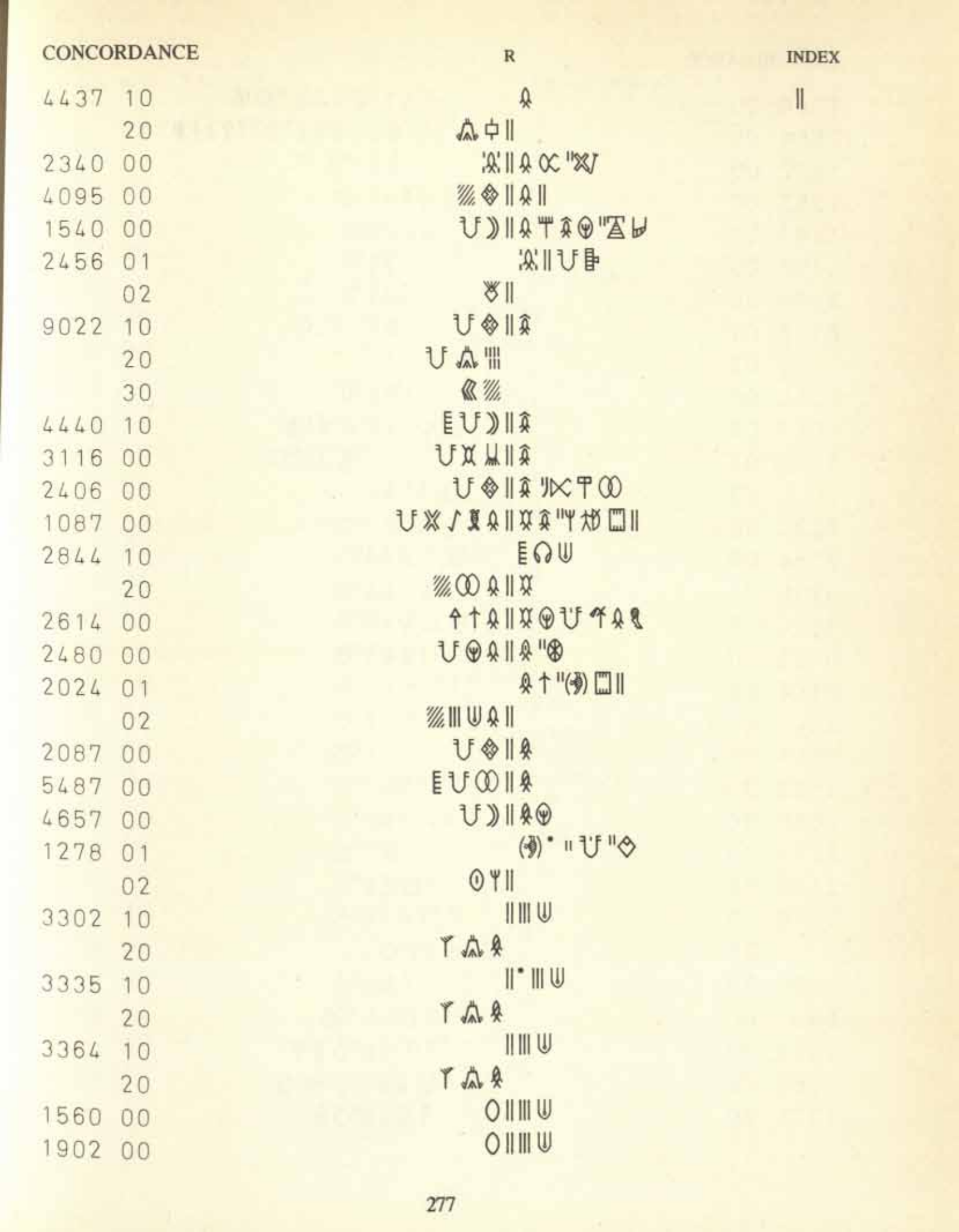

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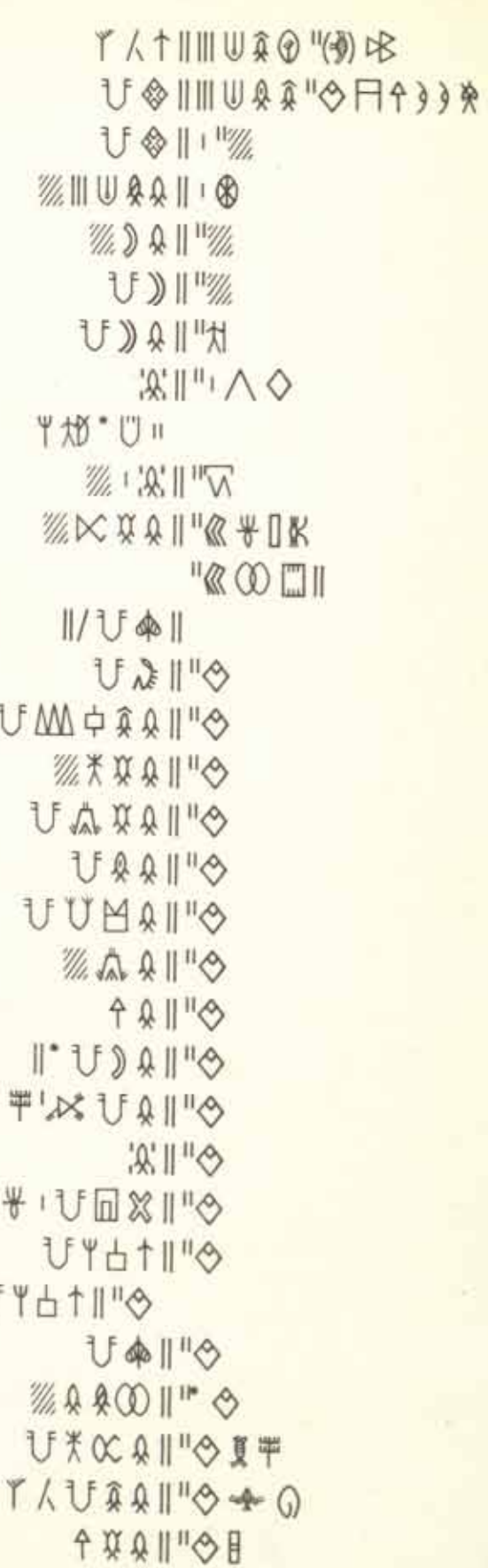

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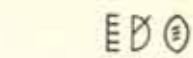
5285	10	
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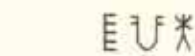
4342	10	
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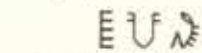
5464	10	
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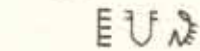
4368	10	
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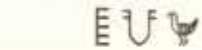
8117	10	
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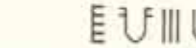
4358	10	
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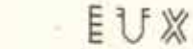
4348	10	
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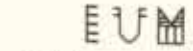
4419	10	
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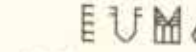
4679	10	
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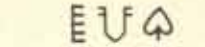
4347 10 
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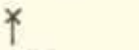
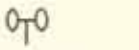
20 
30 
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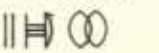
4678 10 
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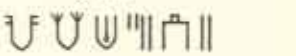
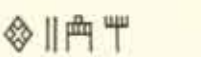
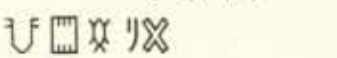
1026 00 
4584 10 
20 
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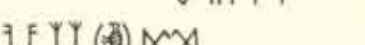
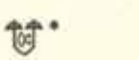
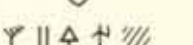
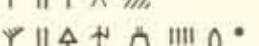
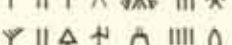
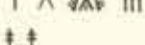
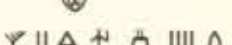
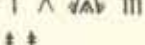
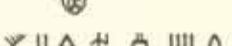
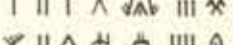
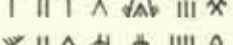
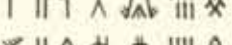
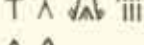
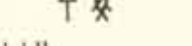
20 
3375 10 
20 
3305 10 
3373 10 
2901 10 
20 
3360 10 
20 
1803 10 
2911 10 
3303 10 
4551 10 
20 
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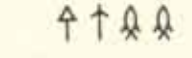
20 
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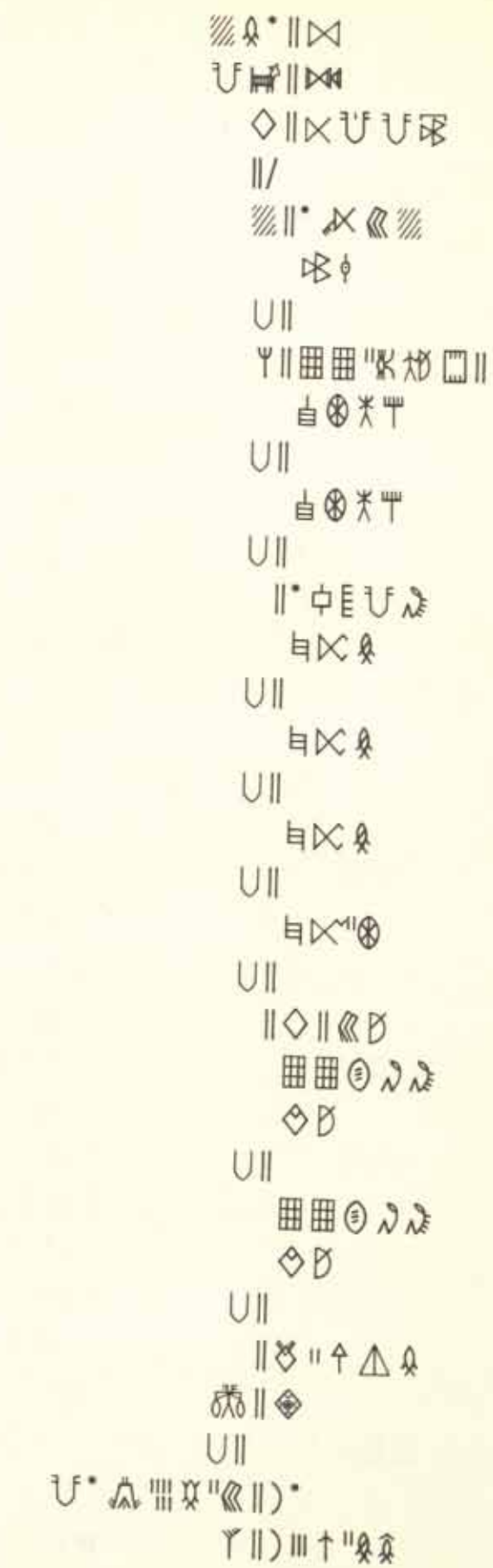

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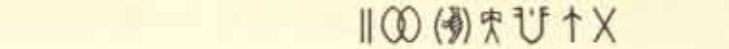
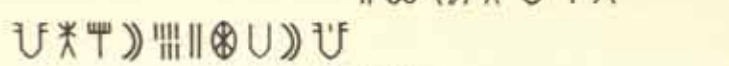
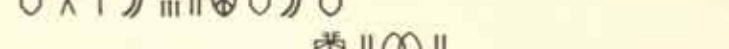
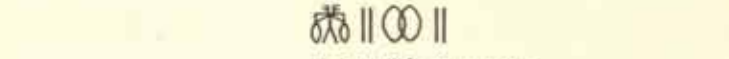
20 
30 
1205 00 
1541 00 
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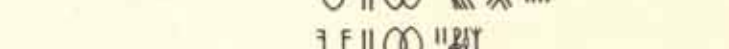
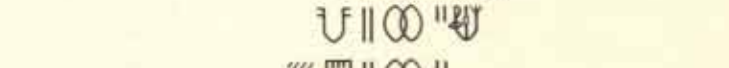
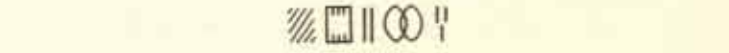
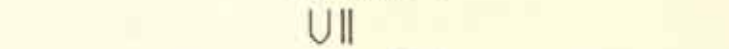
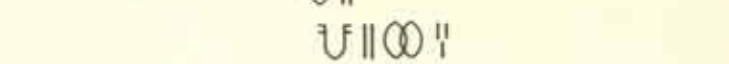
4420 10 
20 
4477 10 
20 
4427 10 
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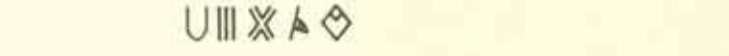
4658 10 
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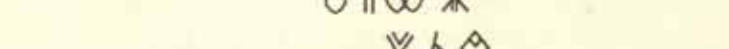
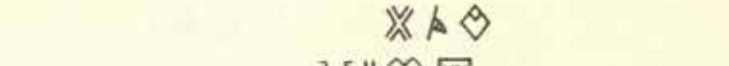
20 
1146 00 
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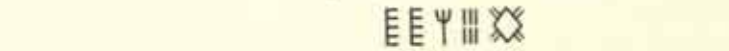
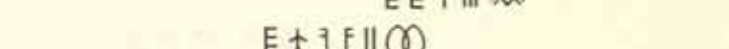
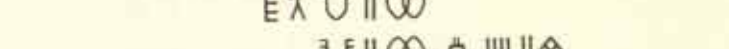
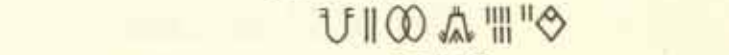
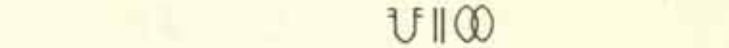
20 
1215 00 
2115 00 
1536 00 
4253 00 
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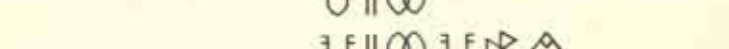
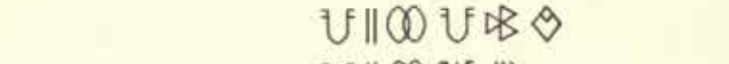
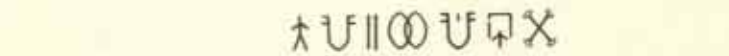
4691 10 
20 

2045 10 
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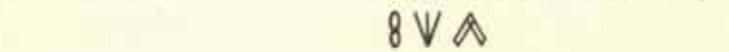
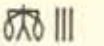
2111 00 

3081	00	
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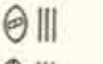
4671	10	
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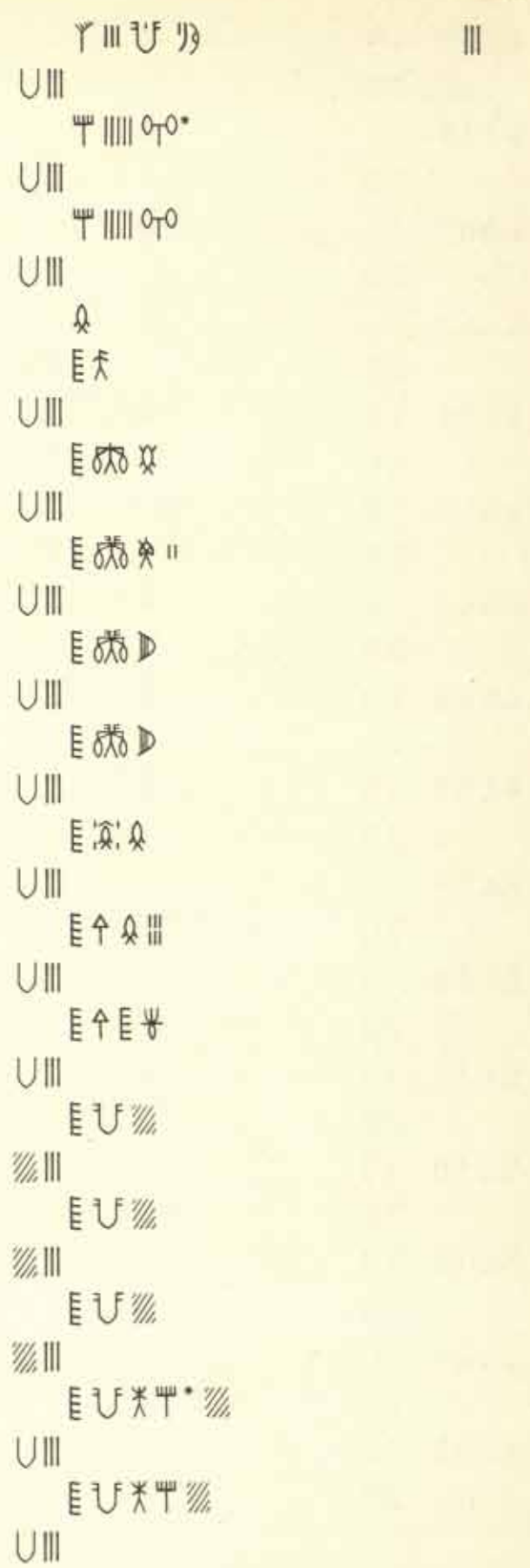

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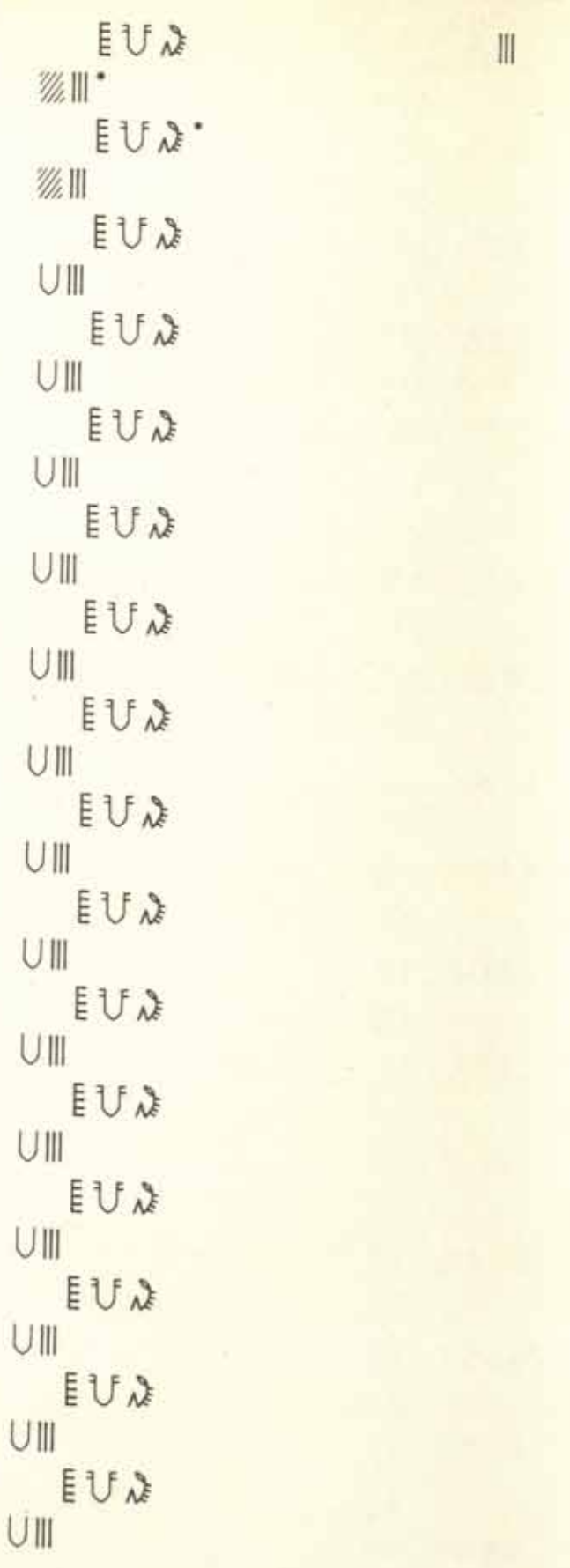

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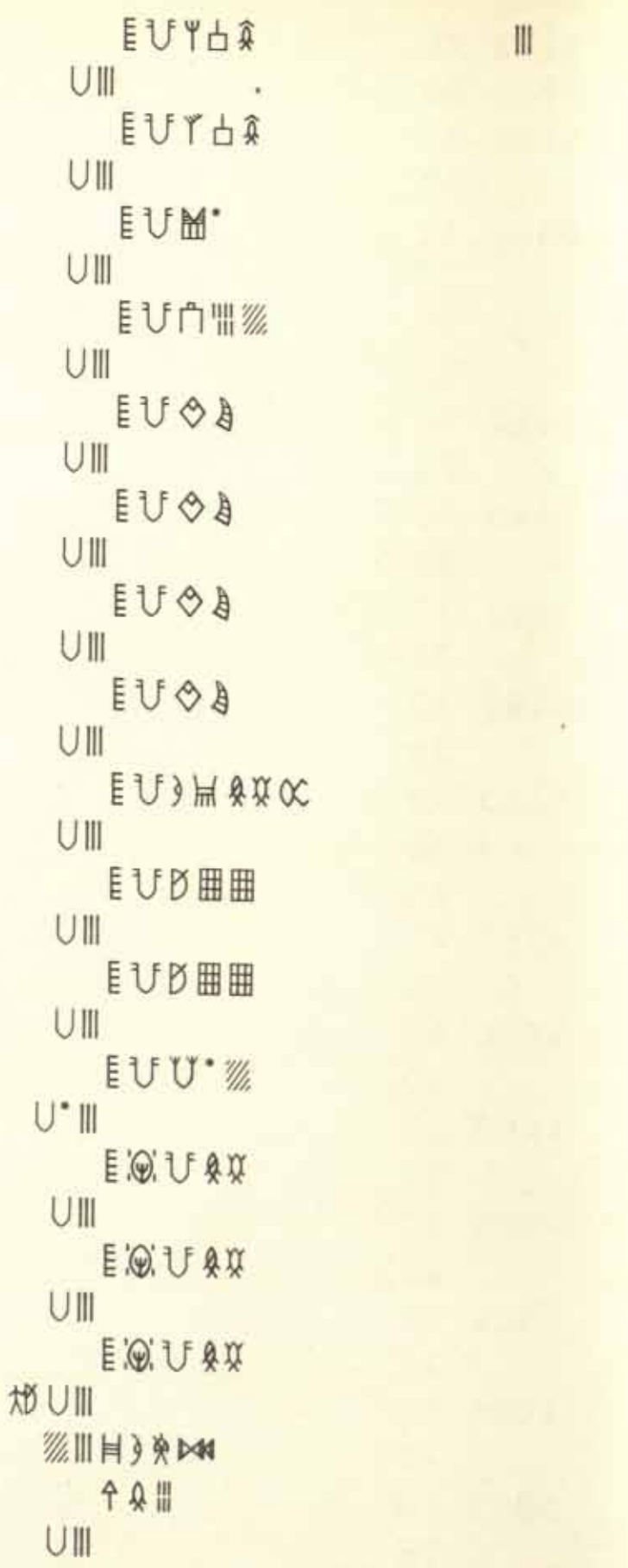

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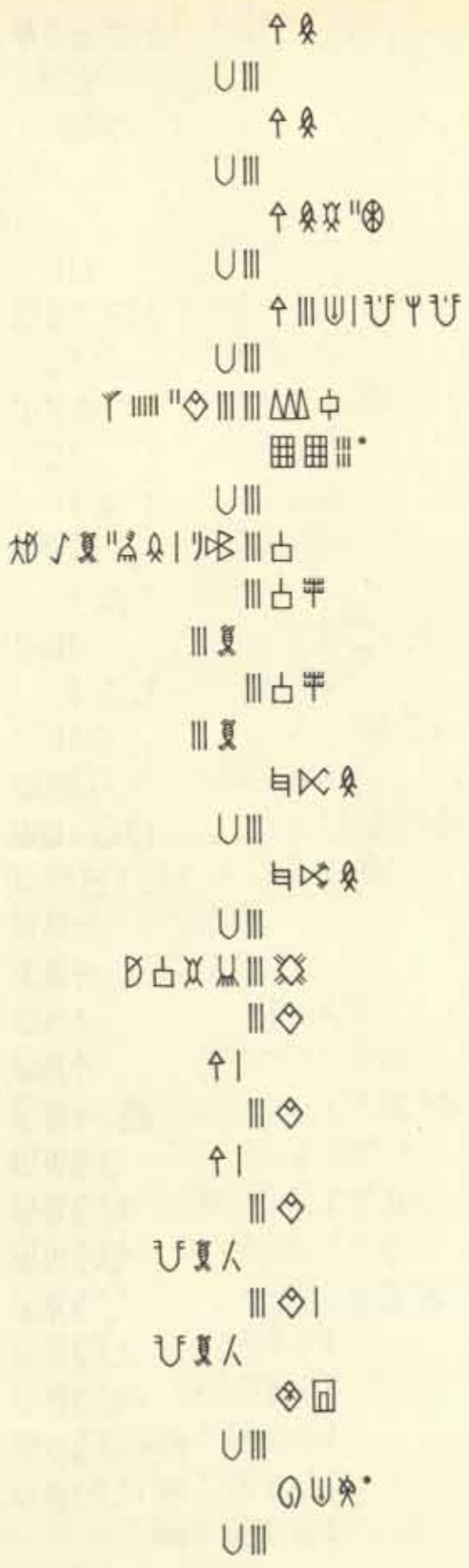

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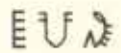
5413	10	
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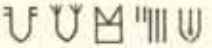
2573	00	
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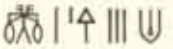
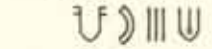
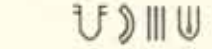
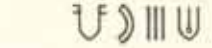
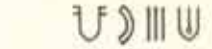
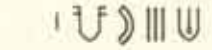
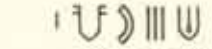
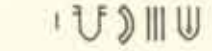
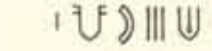
1030	00	
1711	10	
3356	10	
3388	00	
3392	10	
3328	10	
3336	10	
3368	10	
3390	00	

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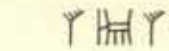
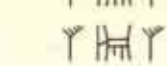
3312	10	
3331	10	
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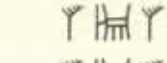
3354	10	
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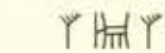
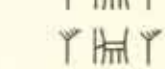
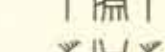
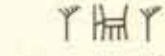
3381	10	
3384	10	
4288	00	
4049	00	
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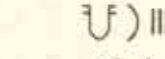
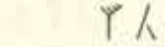
4672	10	
	20	
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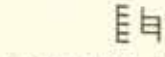
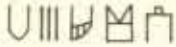
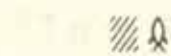
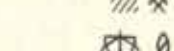
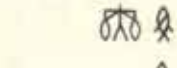
1557	00	
6207	00	
1008	00	
2275	00	
2426	00	
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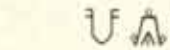
2918	10	
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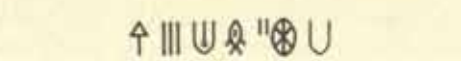
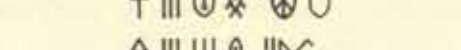
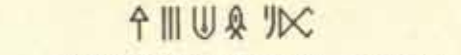
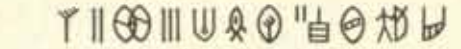
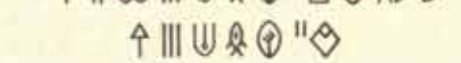
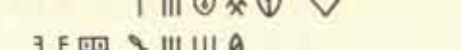
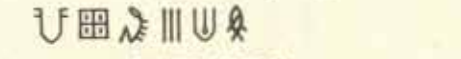
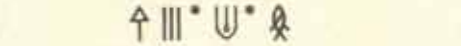
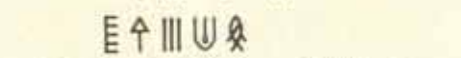
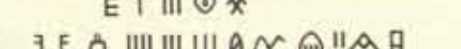
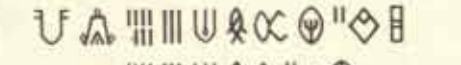
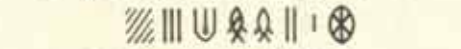
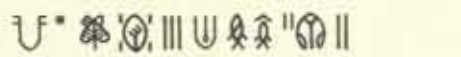
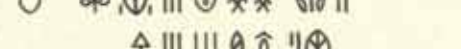
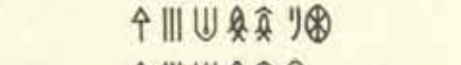
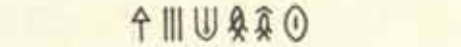
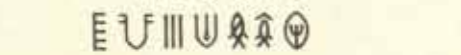
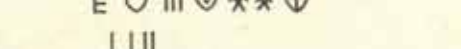
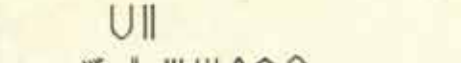
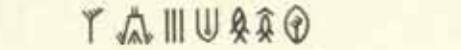
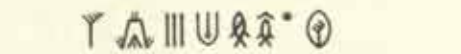
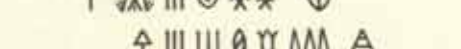
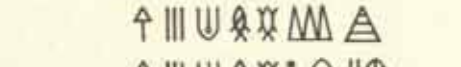
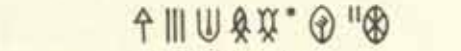
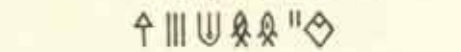
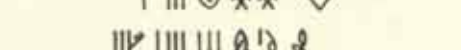
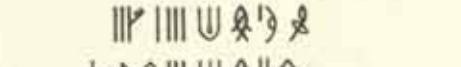
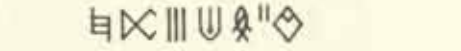
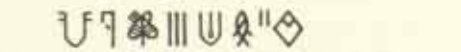
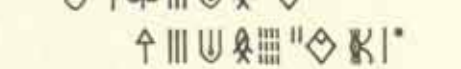
2208	00	
1170	00	
5096	00	
5062	00	
4013	00	
2110	00	
1251	00	
2446	00	
2367	00	
2197	00	
1345	00	
2507	00	
4358	10	
	20	
1802	10	
3396	00	
7009	00	
4281	00	
3160	00	
2617	00	
1456	00	
5058	00	
1003	00	
2655	00	
1104	00	
1168	00	
4211	00	
4718	10	
	20	
2391	00	
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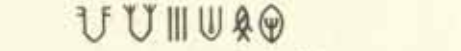
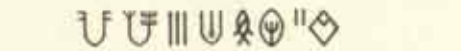
2251	00	
4083	00	

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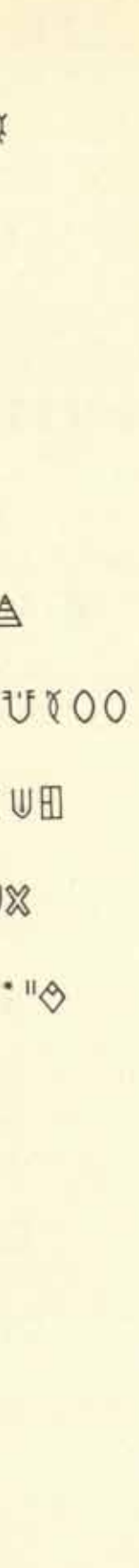

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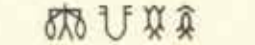

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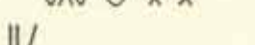

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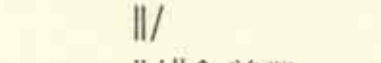

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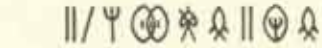

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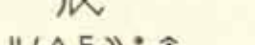

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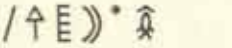

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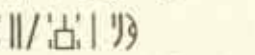

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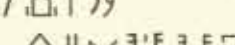

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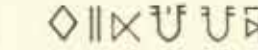

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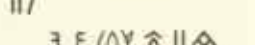

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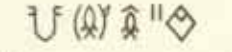

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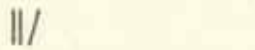

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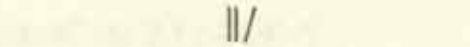

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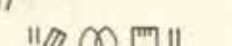

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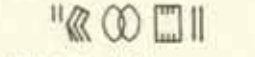

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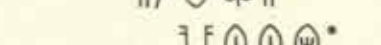

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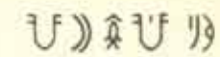
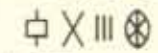
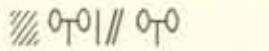
2405 10 
21 
22 
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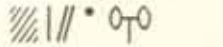
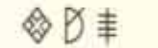
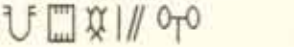
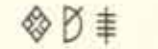
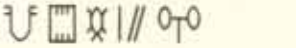
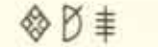
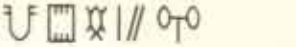
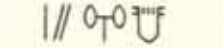
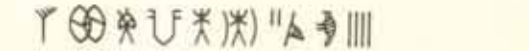
20 
4449 10 
20 
4450 10 
20 
4573 10 
20 
2620 00 

6125 00 
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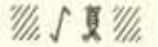
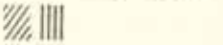
5492 10 
20 
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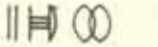
4678 10 
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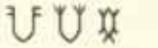
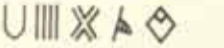
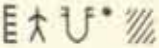
4485 10 
20 
4571 10 
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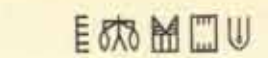
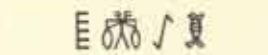
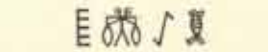
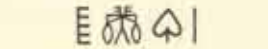
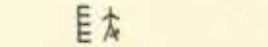
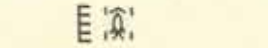

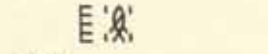
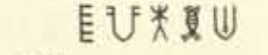
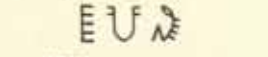
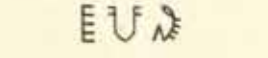
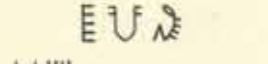
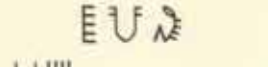
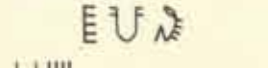
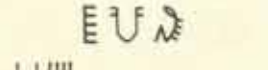

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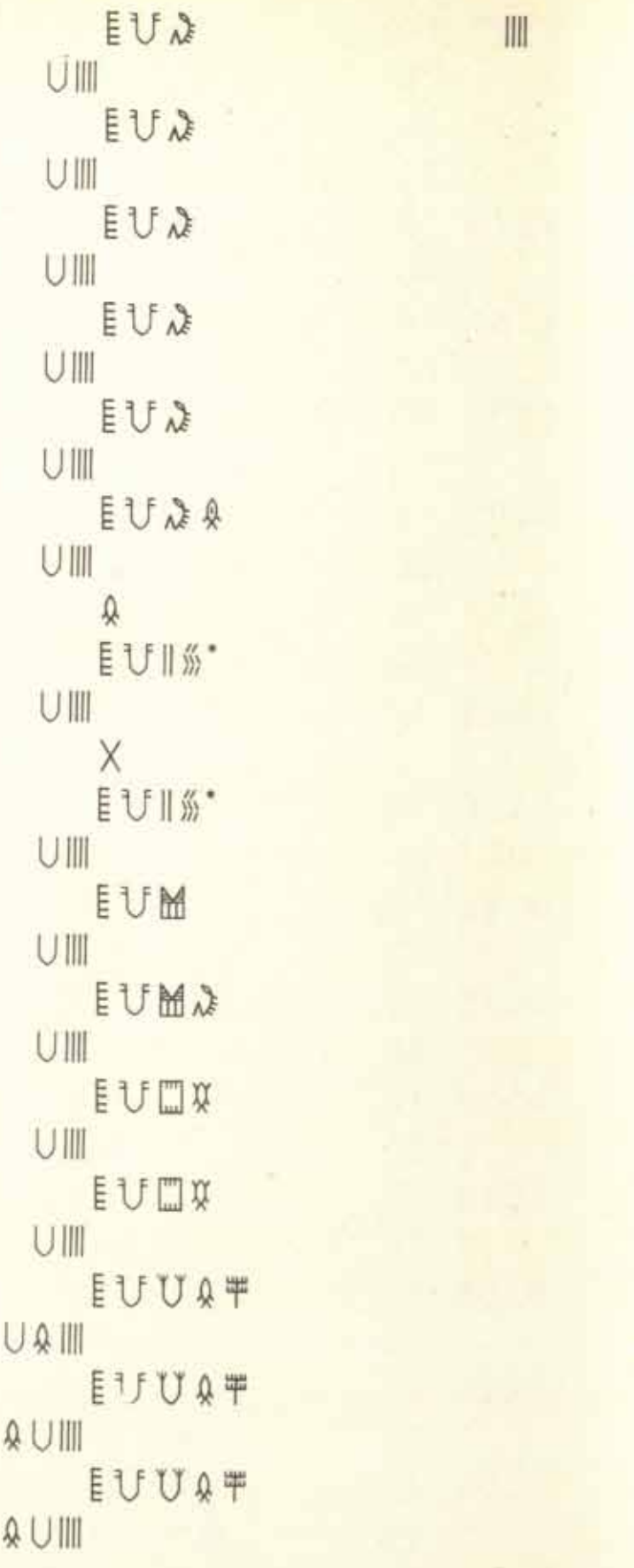
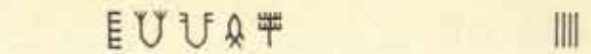
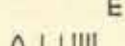


5460	10	
	20	
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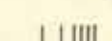
	20	
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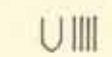
	20	
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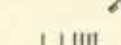
	30	
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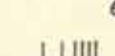
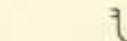
	20	
5455	10	
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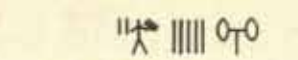
2366 01 

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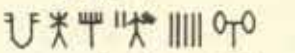
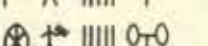
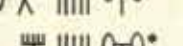
1050 00 

1037 00 

4483 10 

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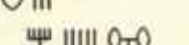
5269 10 

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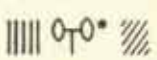
3035 00 

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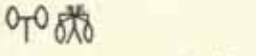
1325 11 

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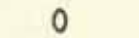
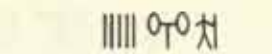
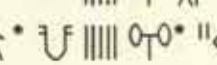
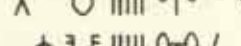
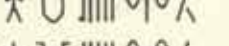
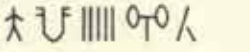
20 

2179 00 

2155 00 

2404 00 

4621 00 

2581 00 

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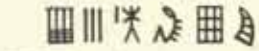
9801 00 

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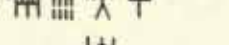
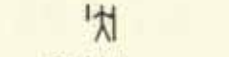
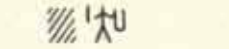
1449 00 

9901 00 

2496 00 

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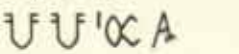
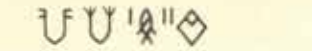
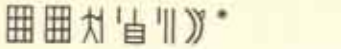
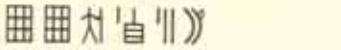
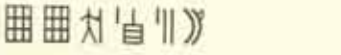
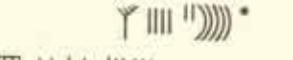
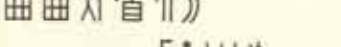
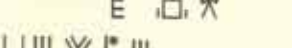
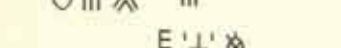
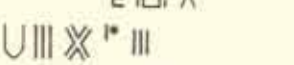
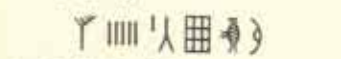
1071 00 

3090	00	
2920	10	
3316	10	
3344	10	
3347	11	
	12	
1527	11	
	12	
2604	11	
	12	
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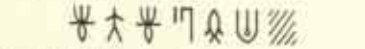
2130	00	
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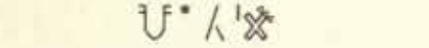
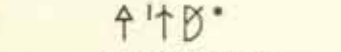
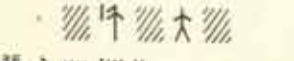
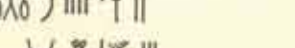
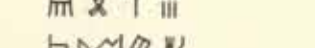
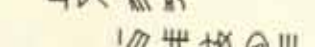
2511	00	
2535	00	
4811	00	
9833	00	
3021	00	
1309	00	
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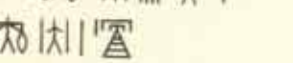
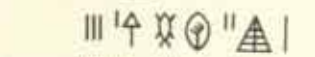
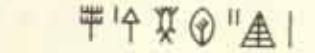
4266	00	
9801	00	
2134	00	
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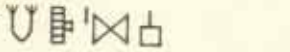
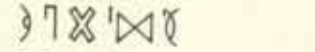
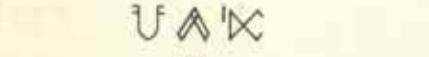
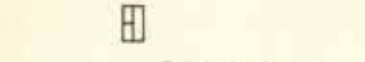
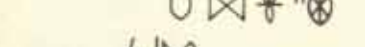
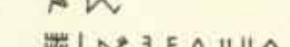
2477	00	
1030	00	
7020	00	
4008	00	
1355	01	
	02	
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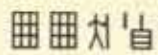
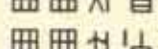
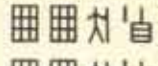
3413	10	
1710	10	
2916	10	
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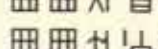
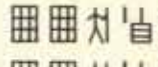
3401	00	
2125	00	
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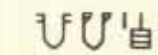
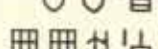
3316	10	
3344	10	
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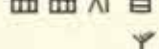
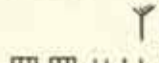
7064	00	
7031	00	
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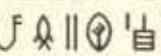
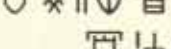
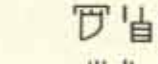
5078	00	
2191	00	
2664	00	
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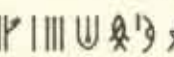
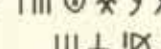
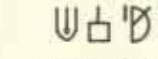
2126	00	
1452	00	
4224	01	
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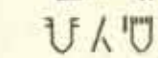
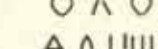
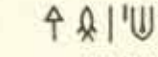
4614	00	
1418	00	
2470	00	
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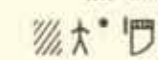
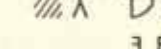
2929	10	
	20	
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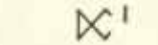
2301	00	
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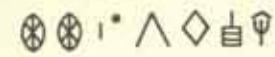
2925	10	
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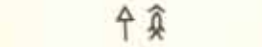
1625	10	
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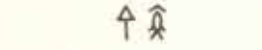
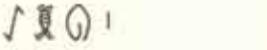
2852	10	
	20	
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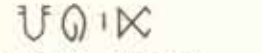
8004	00	
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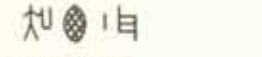
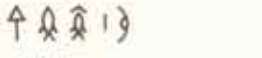
4163	00	
1321	01	
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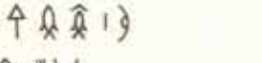
2398	01	
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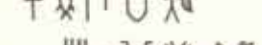
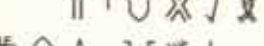
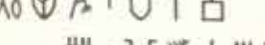
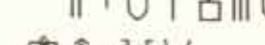
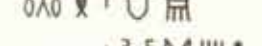
1347	00	
2369	00	
4297	00	
4001	00	
2428	00	
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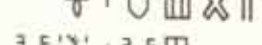
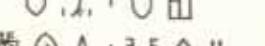
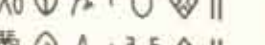
2103	00	
1122	00	
4017	00	
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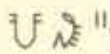
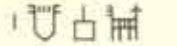
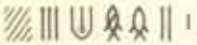
20 
2515 00 
2367 00 
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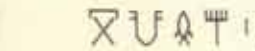
2069 00 
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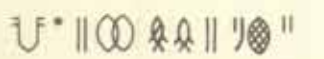
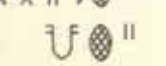
7021 00 
2021 00 
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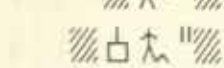
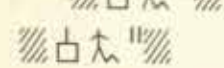
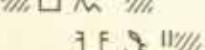
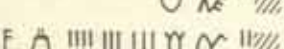
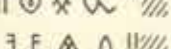
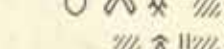
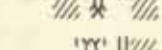
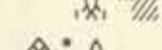
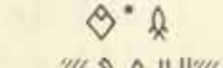
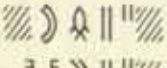
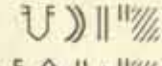
7262 10 
20 
2089 00 
1557 00 
2646 00 
1492 00 
2235 01 
02 
1491 00 
4108 00 
1432 00 
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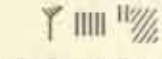
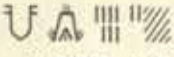
8019 00 
4699 00 
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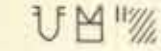
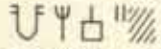
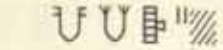
5115 00 
7216 00 
4186 00 

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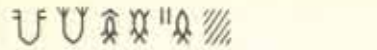
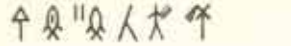
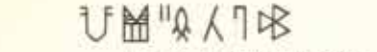
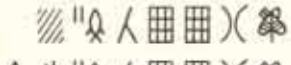
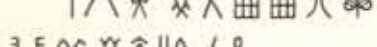
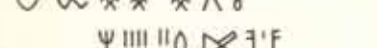
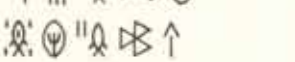
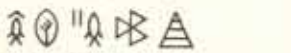
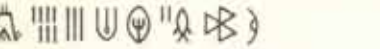
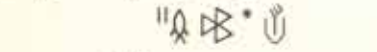
4250	00	
8037	00	
2563	00	
3235	10	
2860	10	
3089	00	
4238	00	
3097	00	
2033	00	
4020	00	
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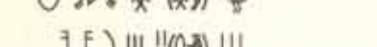
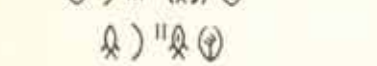
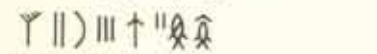
2098	00	
2593	00	
4087	00	
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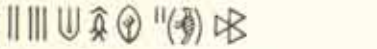
4274	00	
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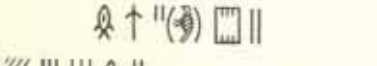
1006	00	
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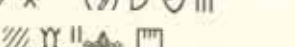
2024	01	
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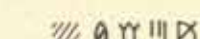
2543	01	
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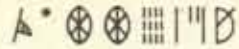
2427	00	
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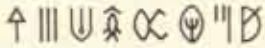
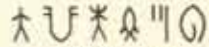
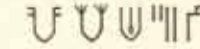
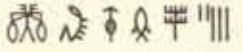
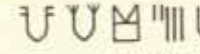
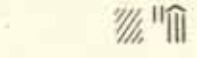
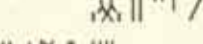
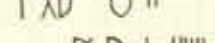
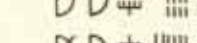
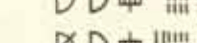
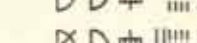
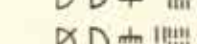
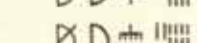
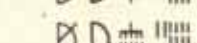
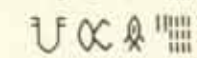
4028	00	
1214	00	
1026	00	
4229	00	
2573	00	
8018	00	
6116	01	
	02	
8108	00	
8109	00	
8110	00	
8111	00	
8112	00	
8113	00	
8115	00	
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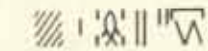
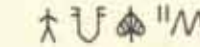
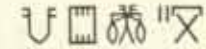
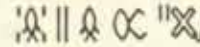
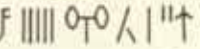
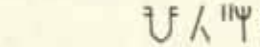
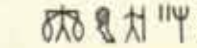
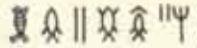
	20	
2044	00	
4037	00	
2257	00	
2340	00	
2581	00	
2666	00	
3083	00	
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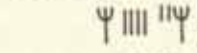
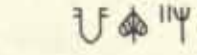
2018	00	
9091	00	
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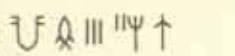
4141	00	
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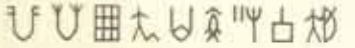
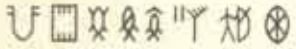
9011	00	
2271	00	
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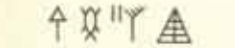
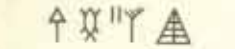
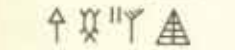
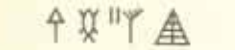
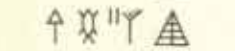
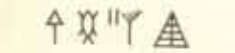
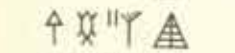
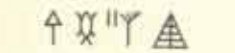
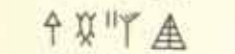
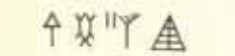
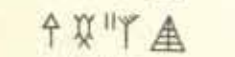
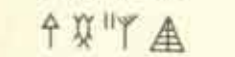
4315	10	
5207	10	
5208	10	
5209	10	
5210	10	
5212	10	
5213	10	
5214	10	
5215	10	
5216	10	
5217	10	
5218	10	
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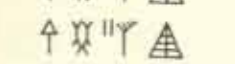
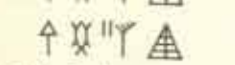
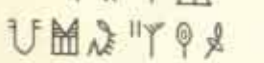
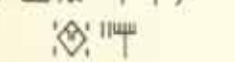
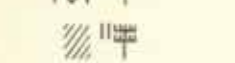
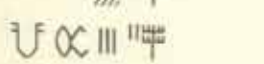
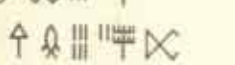
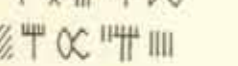
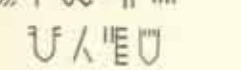
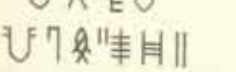
5220	10	
5262	10	
1058	00	
8033	00	
4180	00	
5080	00	
1314	00	
2319	00	
2140	00	
3151	00	
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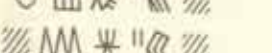
8060	00	
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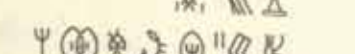
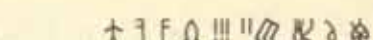
3087	00	

2128	00	
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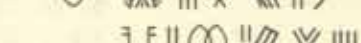
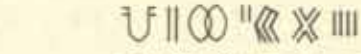
1033	00	
2166	00	
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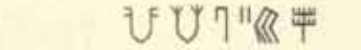
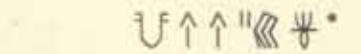
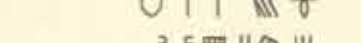
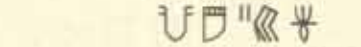
6402	01	
	02	
	03	
1047	00	
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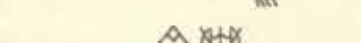
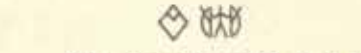
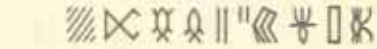
1552	00	
6403	01	
	02	
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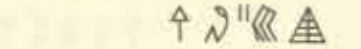
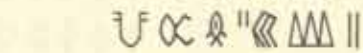
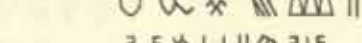
2391	00	
7080	00	
4244	00	
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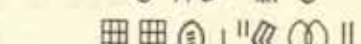
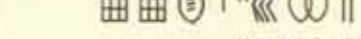
1391	00	
3320	10	
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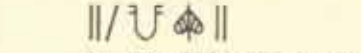
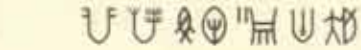
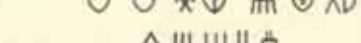
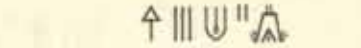
	20	
	30	
	40	
1540	00	
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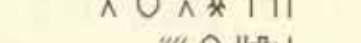
2477	00	
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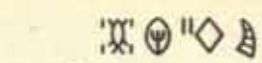
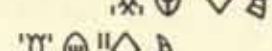
3106 10 
20 
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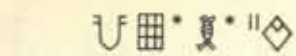
4375	10	
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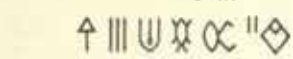
3096	00	
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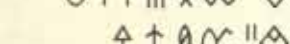
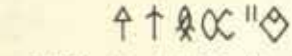
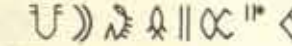
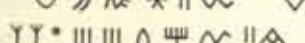
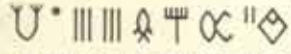
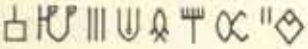
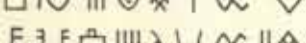
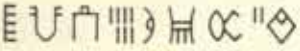
1621	00	
1429	00	
4119	00	
3232	10	
	20	
4053	00	
4812	00	
4232	00	
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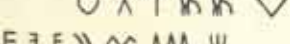
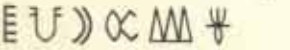
2590	00	
1554	00	
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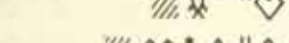
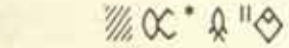
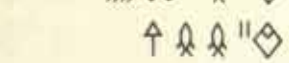
2523	00	
6124	01	
	02	
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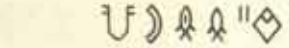
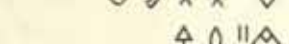
	02	
4005	00	
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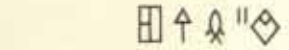
	20	
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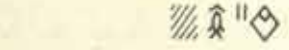
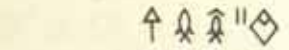
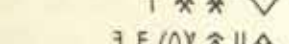
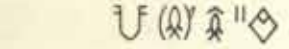
4057	00	
1158	00	
2545	00	
7090	00	
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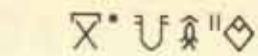
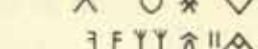
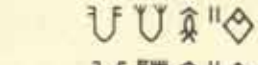
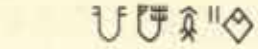
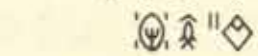
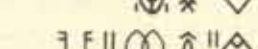
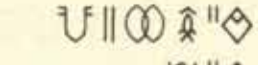
1057	00	
1098	00	
4088	00	
4117	00	
1369	00	
7255	00	
7269	00	
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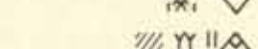
3121	00	
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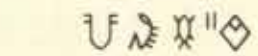
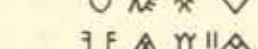
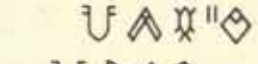
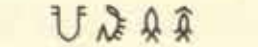
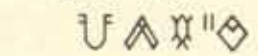
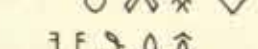
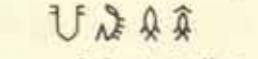
5237	10	
	20	
5238	10	
	20	
5239	10	
	20	
5240	10	
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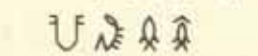
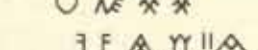
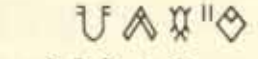
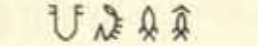
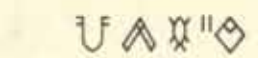
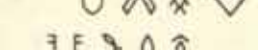
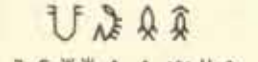
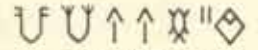
2224	00	
2048	00	
2338	00	
2647	00	
1367	00	
2079	00	
1096	00	
2618	00	
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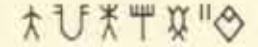
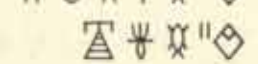
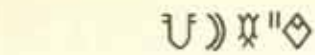
4314	10	
	20	

5264	10	
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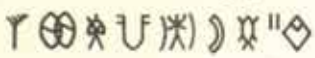
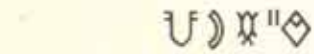
1011	00	
1351	00	
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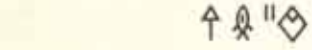
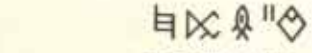
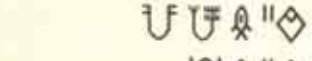
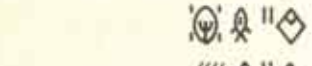
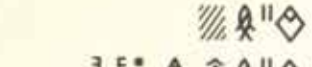
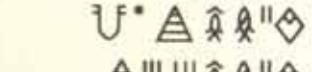
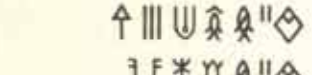
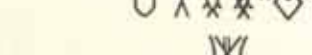
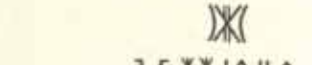
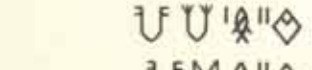
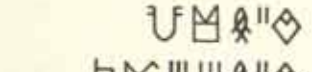
2132	00	
4092	00	
7088	00	
2067	00	
4154	00	
1317	00	
1326	00	
2083	01	
	02	
3090	00	
1328	00	
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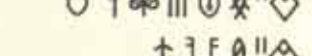
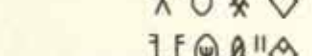
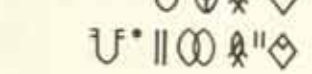
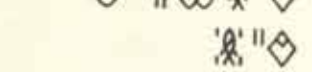
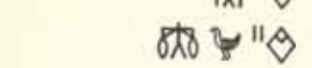
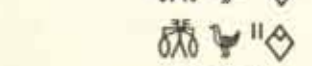
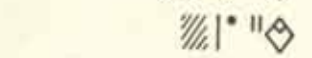
5058	00	
7066	00	
9001	00	
5084	00	
8025	00	
2503	00	
1228	00	
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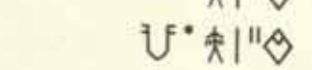
7278	00	
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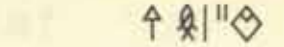
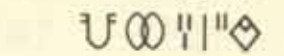
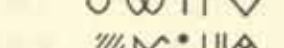
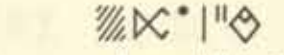
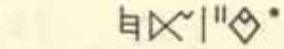
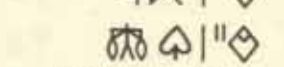
3039	00	
6216	00	
2551	00	
9121	00	
4316	10	
6224	00	
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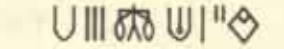
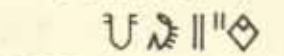
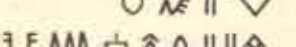
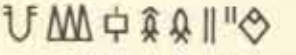
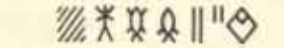
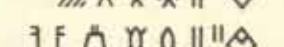
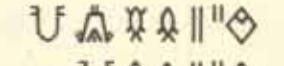
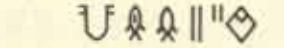
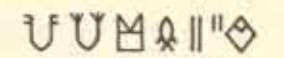
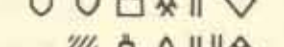
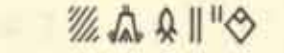
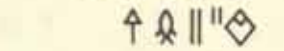
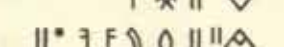
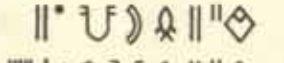
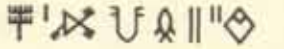
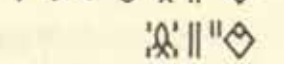
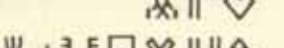
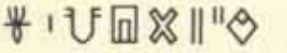
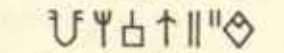
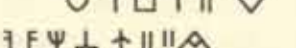
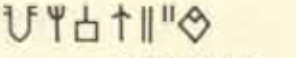
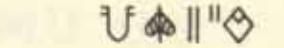
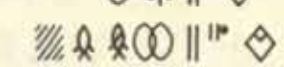
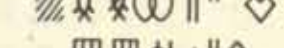
6219	00	
1014	00	
6129	00	
3164	00	
3042	00	
1551	00	
1082	00	
2552	00	
6211	00	
2103	00	
4075	10	
	20	
4268	00	
5507	00	
1424	00	
2513	00	
9071	00	
2837	00	
4282	00	
2450	00	
1039	00	
7054	00	
2085	00	
4264	00	

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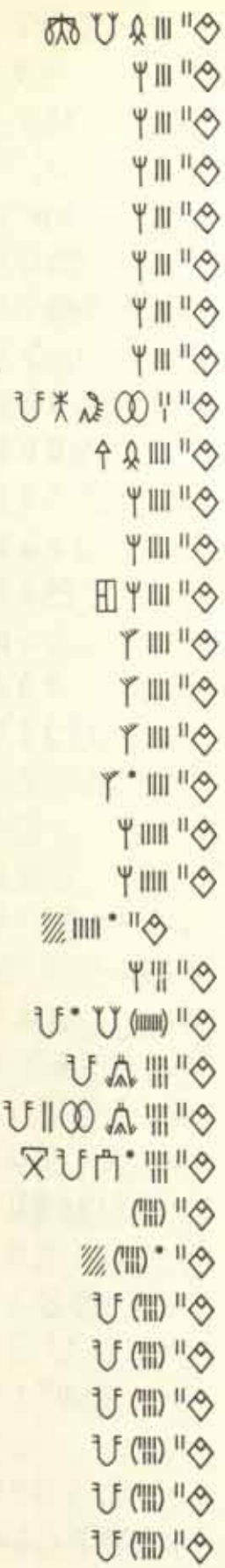

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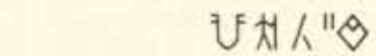
1086	00	
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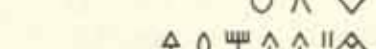
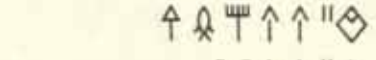
7214	00	
1372	00	
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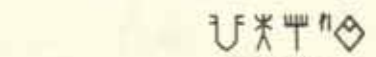
1465	00	
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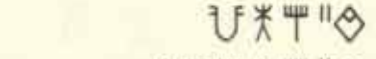
1322	00	
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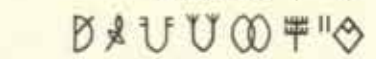
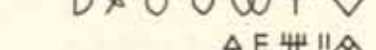
	20	
	30	
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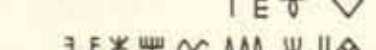
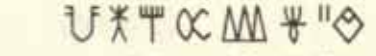
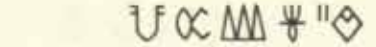
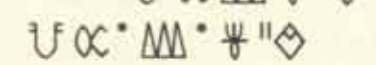
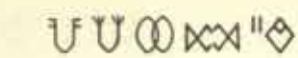
2680	00	
5055	00	
1022	00	
1274	00	

2363	00	
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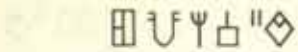
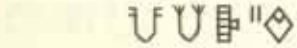
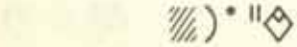
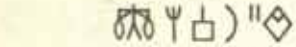
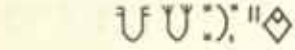
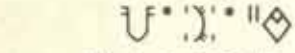
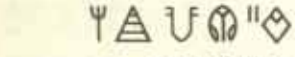
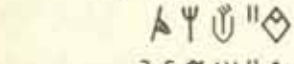
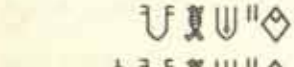
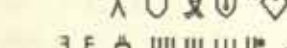
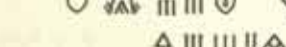
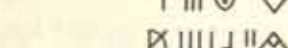
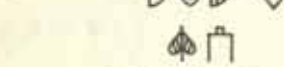
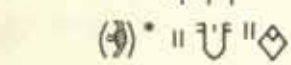
2660	00	
2051	00	
4293	00	
2569	00	
1162	00	
2031	00	
1537	00	
2408	00	
1181	00	
1115	00	
4021	00	
2251	00	
1340	01	
	02	
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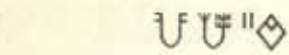
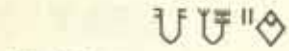
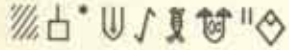
	02	
2102	00	
2591	00	
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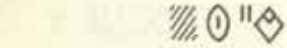
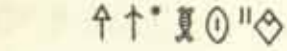
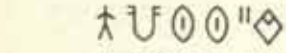
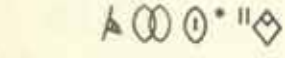
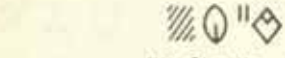
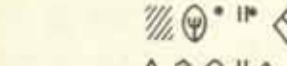
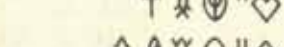
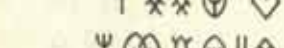
7095	00	
2512	00	
7062	00	
2255	00	
4080	00	
2865	10	
7008	00	
6206	00	
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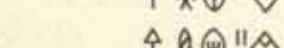
1080	00	
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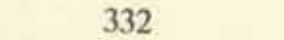
6217	00	

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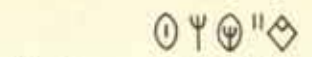
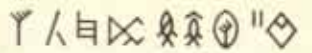
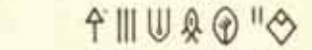
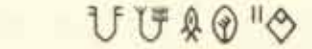
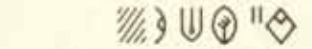
3111	00	
4022	00	
5062	00	
4270	00	
2491	00	
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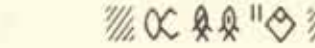
4060	00	
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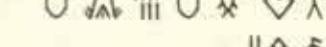
1553	00	
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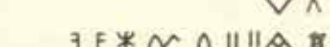
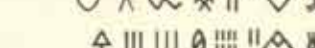
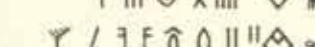
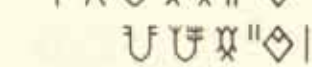
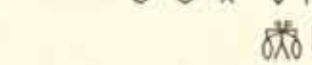
2942	10	
2429	00	
1003	00	
4269	00	
1097	00	
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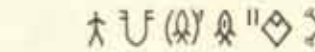
1054	00	
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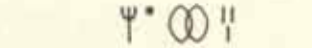
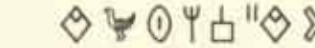
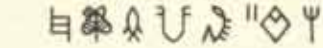
6203	01	
	02	
2473	00	
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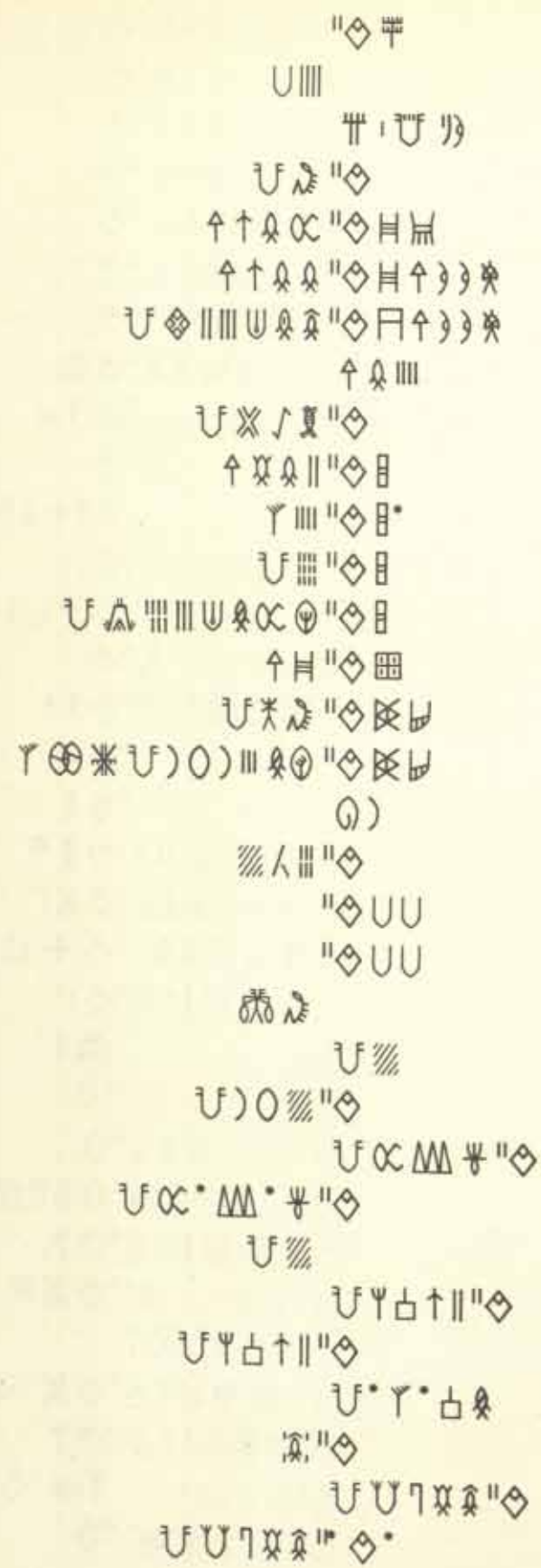

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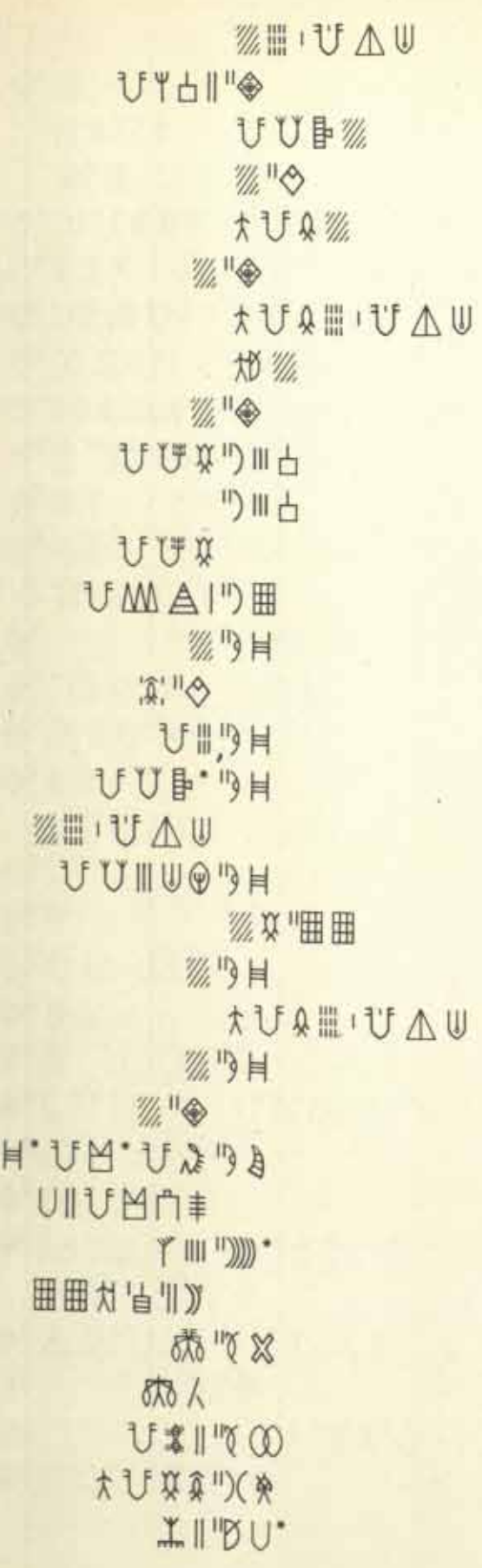
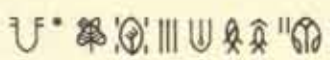
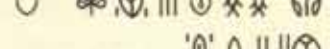
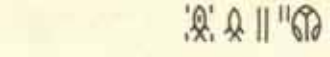
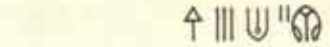


2197	00	
2171	00	
4055	00	
2250	00	
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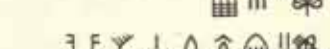
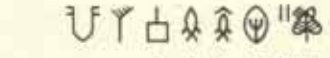
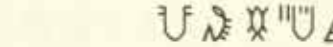
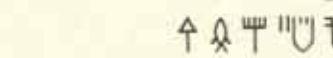
4079	00	
3060	00	
2075	00	
9811	00	
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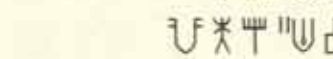
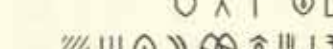
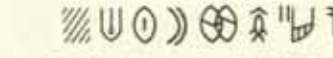
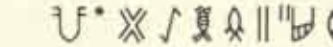
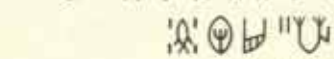
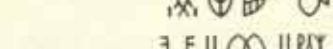
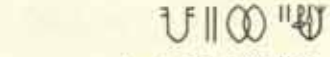
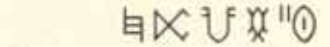
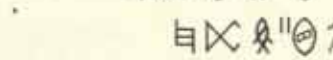
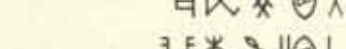
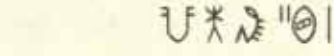
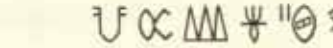
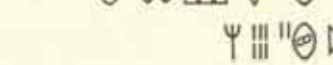
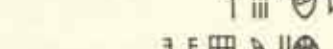
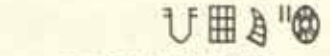
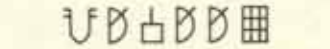
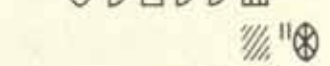
2432	00	
2246	00	
2281	00	
7015	00	
1028	00	
2407	00	
1035	00	
4123	10	
	20	
6208	00	
4043	00	
1178	00	
4665	10	
	20	
4340	10	
4601	10	
	20	
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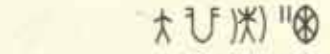
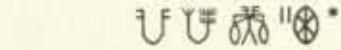
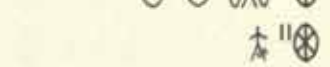
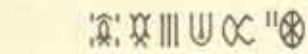
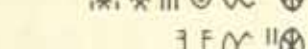
	20	
1010	00	
2162	00	

2307	00	
4813	00	
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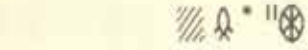
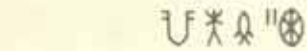
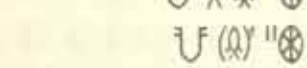
2164	00	
1148	00	
1400	01	
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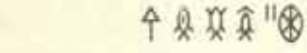
	03	
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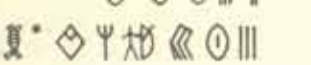
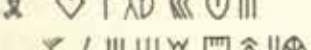
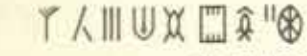
4176	00	
2578	00	
4673	10	
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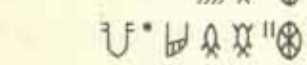
7068	00	
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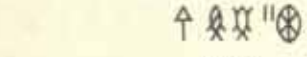
1327	00	
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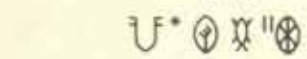
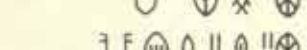
7096	00	
4159	00	
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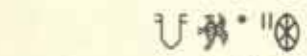
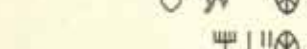
1468	00	
7038	00	
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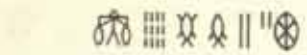
3088	00	
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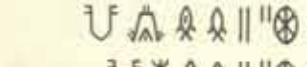
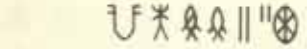
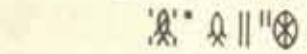
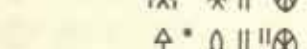
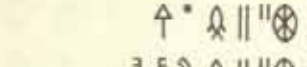
3044	00	
4152	00	
8050	00	
2572	00	
3099	00	

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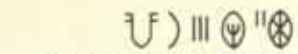
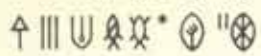
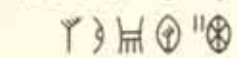
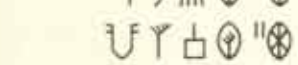
2302	00	
4281	00	
2528	00	
1430	00	
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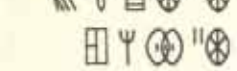
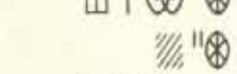
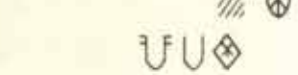
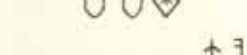
2147	00	
5325	10	
	20	
8101	10	
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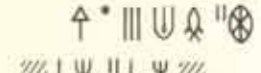
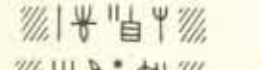
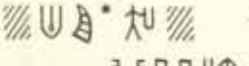
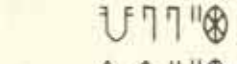
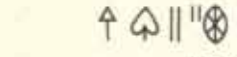
	30	
	40	
8029	00	
2130	00	
2559	00	
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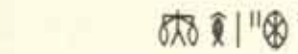
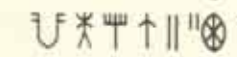
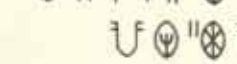
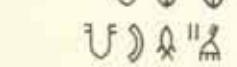
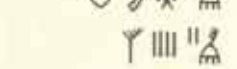
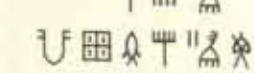
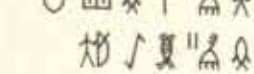
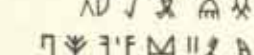
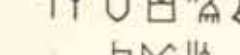
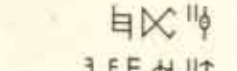
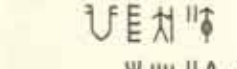
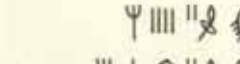
2447	00	
2463	00	
1330	00	
5070	00	
1151	00	
2109	00	
8038	00	
1559	00	
2283	00	
1395	00	
1052	01	
	02	
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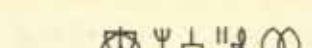
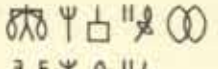
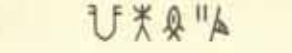
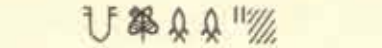
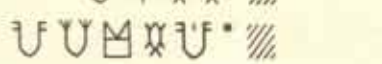
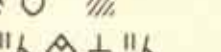
1315 00 

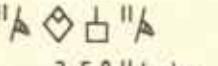
7277 10 

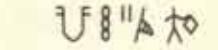
20 

30 

8006 00 

2475 00 

4156 00 

2556 00 

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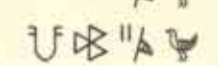
7005 00 

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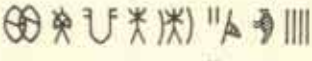
3031 00 

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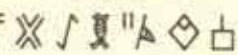
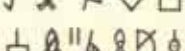
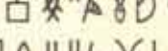
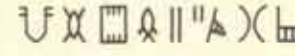
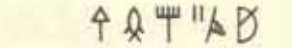
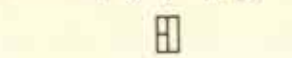
2373 01 

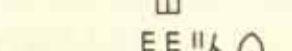
02 

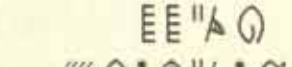
2347 00 

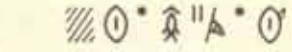
1349 00 

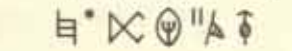
2701 00 

4103 00 

7207 00 

1605 10 

1608 10 

2141 00 

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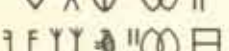
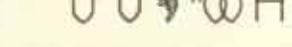
20 

2645 00 

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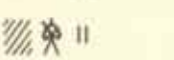
5006 00 

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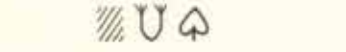
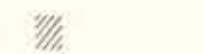
2851 10 
20 
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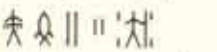
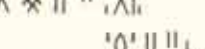
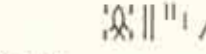
1039 00 
4152 00 
2696 01 
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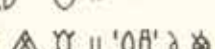
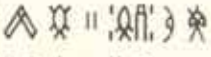
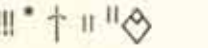
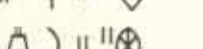
1478 00 
4001 00 
1060 00 
1048 00 
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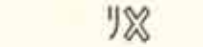
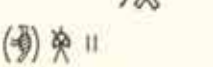
3001 00 
4046 00 
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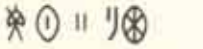
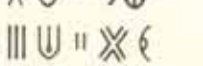
1278 01 
02 
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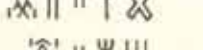
1903 00 

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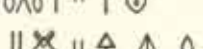
4855 00 

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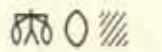
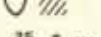
20 

2343 00 

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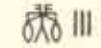
2540 00 

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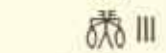
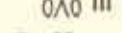
1116 00 

2249 00 

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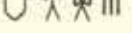
5331 00 

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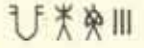
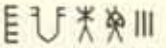
2088 00 

4717 10 

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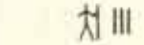
3351 10 

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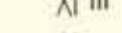
4803 00 

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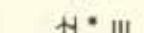
1376 00 

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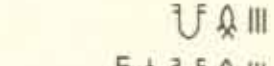
8041	00	
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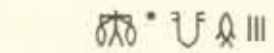
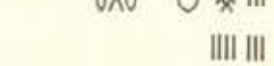
4605	10	
	20	
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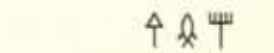
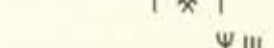
1411	00	
8024	00	
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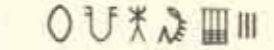
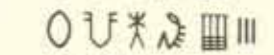
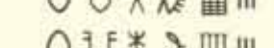
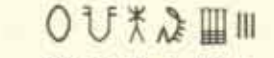
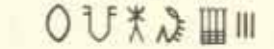
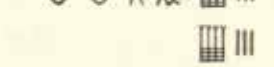
5203	01	
	02	
5204	01	
	02	
1282	00	
2547	00	

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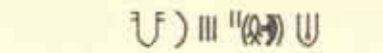
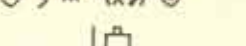
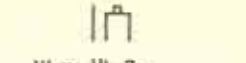
4087	00	
2626	10	
	20	
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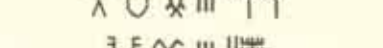
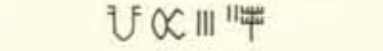
7054	00	
2085	00	
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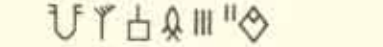
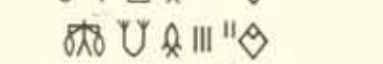
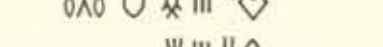
2080	00	
2180	00	
2354	00	
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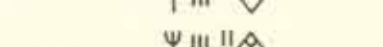
8122	00	
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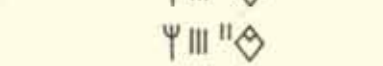
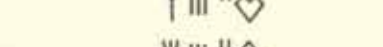
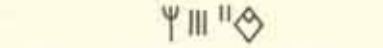
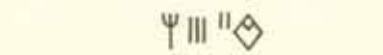
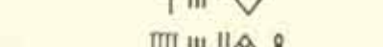
2250	00	
8050	00	
2572	00	
3099	00	
5119	01	
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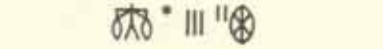
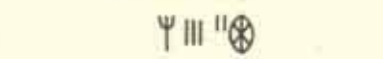
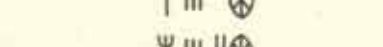
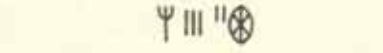
7032	00	
1361	00	
1713	10	
2635	00	
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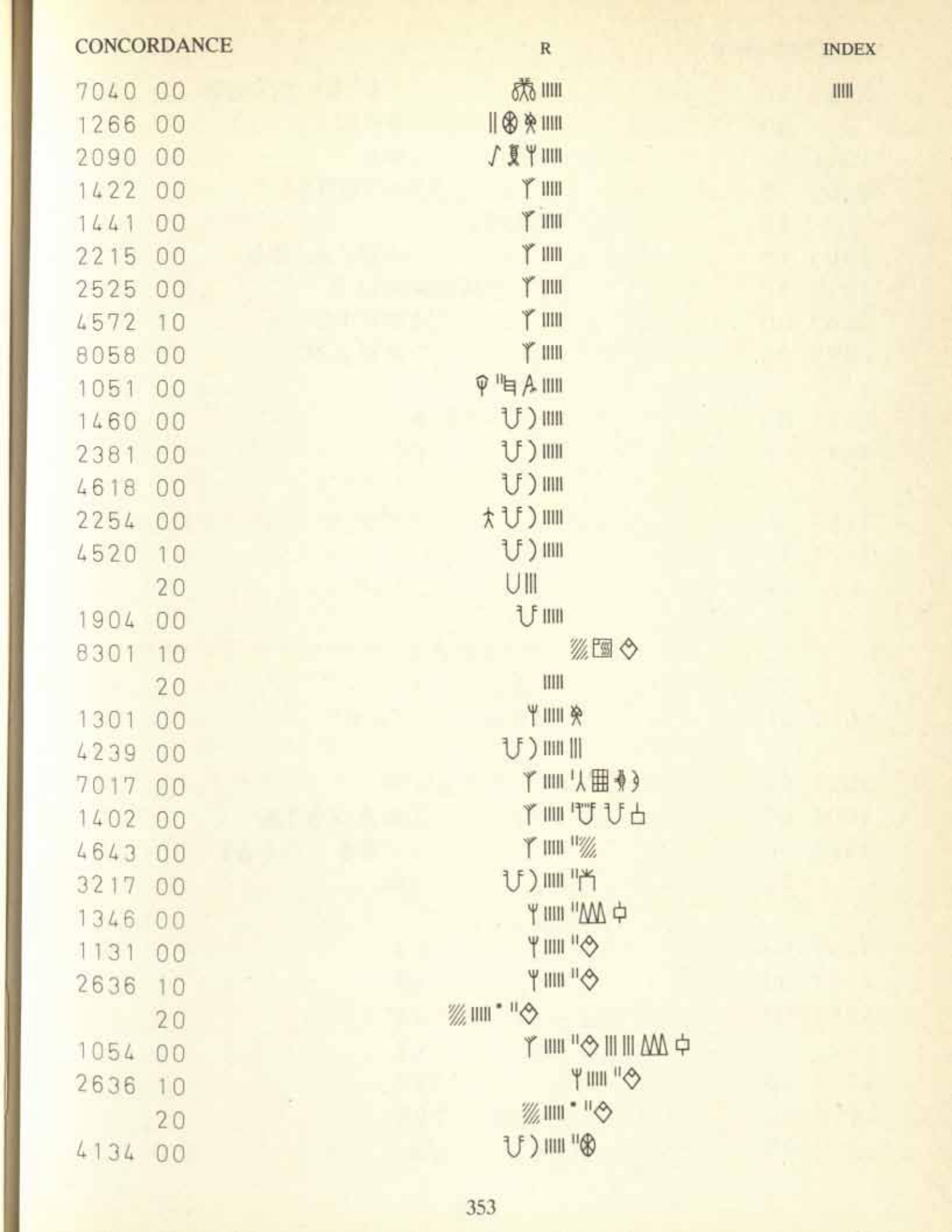

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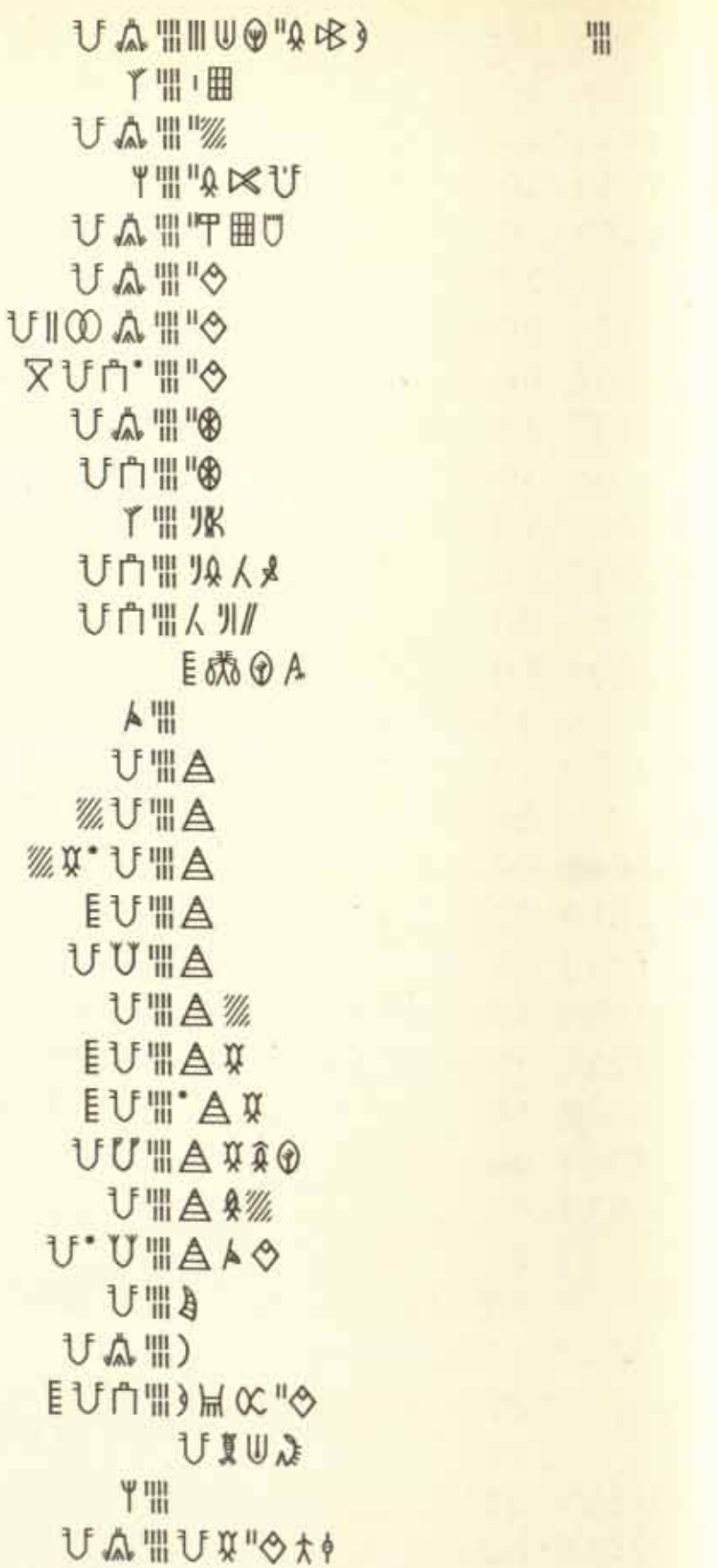

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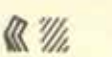
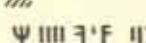
30 
2298 00 
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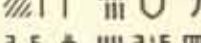
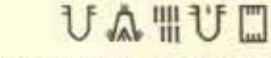
8051 00 
2032 00 

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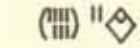
7112 00 
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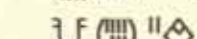
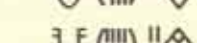
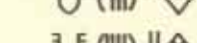
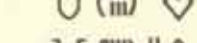
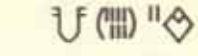
2262 00 
7203 00 
7205 00 
7206 00 
7228 00 
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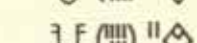
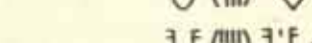
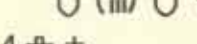
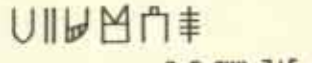
4446 10 
20 
4344 10 
20 
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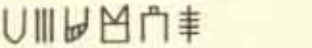
20 
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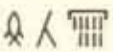

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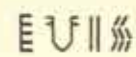
20 
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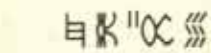
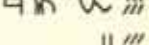
7074 00 
1273 00 

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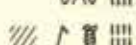
20 
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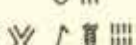
1470 00 
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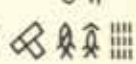
8215 00 
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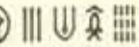
6305 01 
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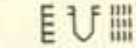
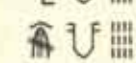
02 
2336 00 
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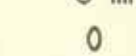
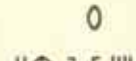
20 
30 

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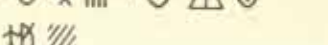
7253 10 
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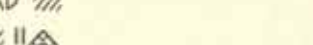
30 
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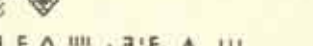
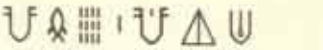
20 
30 
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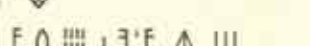
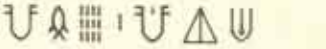
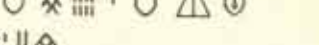
4271 00 
1003 00 
2679 00 
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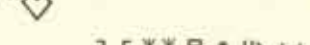
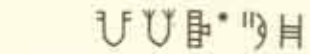
4106 00 
8108 00 
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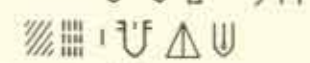
8110 00 
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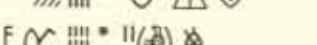
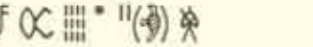
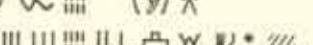
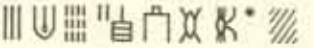
8112 00 
8113 00 
8115 00 
7065 00 
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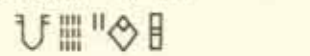
8002 00 
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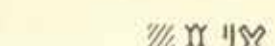
5278	10	
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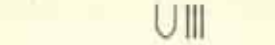
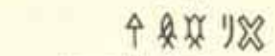
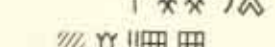
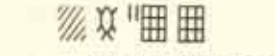
7247	10	
	20	
5261	00	
5337	10	
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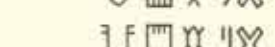
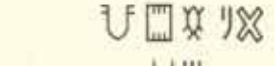
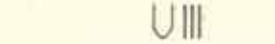
4346	10	
	20	
2243	00	
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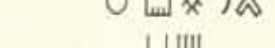
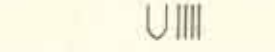
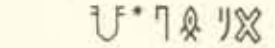
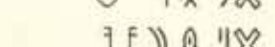
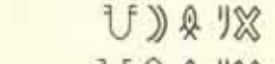
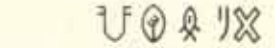
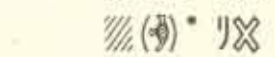
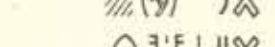
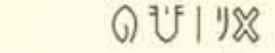
1095	00	
3202	00	
1106	00	
5108	00	
2696	01	
	02	
9205	00	
4843	00	
5100	00	
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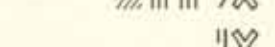
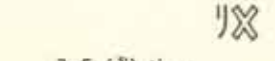
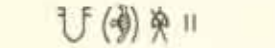
2311	00	
6120	00	
2074	00	
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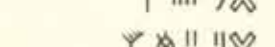
3069	00	
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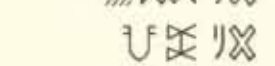
7263	10	
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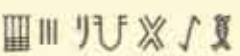
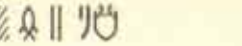
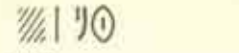
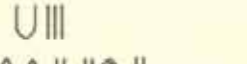
1713	10	
6221	00	
4528	10	
	20	
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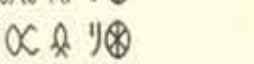
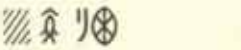
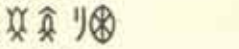
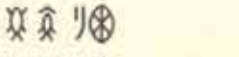
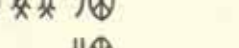
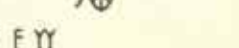
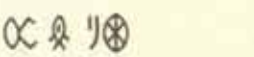
7047	00	
1134	00	
7270	00	
2146	00	
2326	00	
1345	00	
8044	01	
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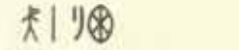
2498	00	
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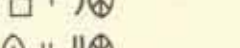
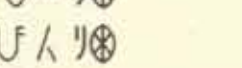
1189	00	
2625	00	
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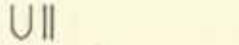
1478	00	
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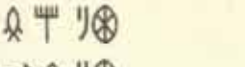
5476	10	
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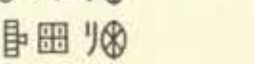
7069	00	
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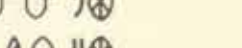
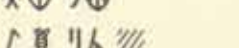
1444	00	
4416	10	
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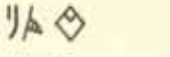
2635 00 
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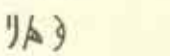
9822 00 
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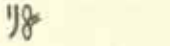
4118 00 

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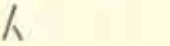
2121 00 
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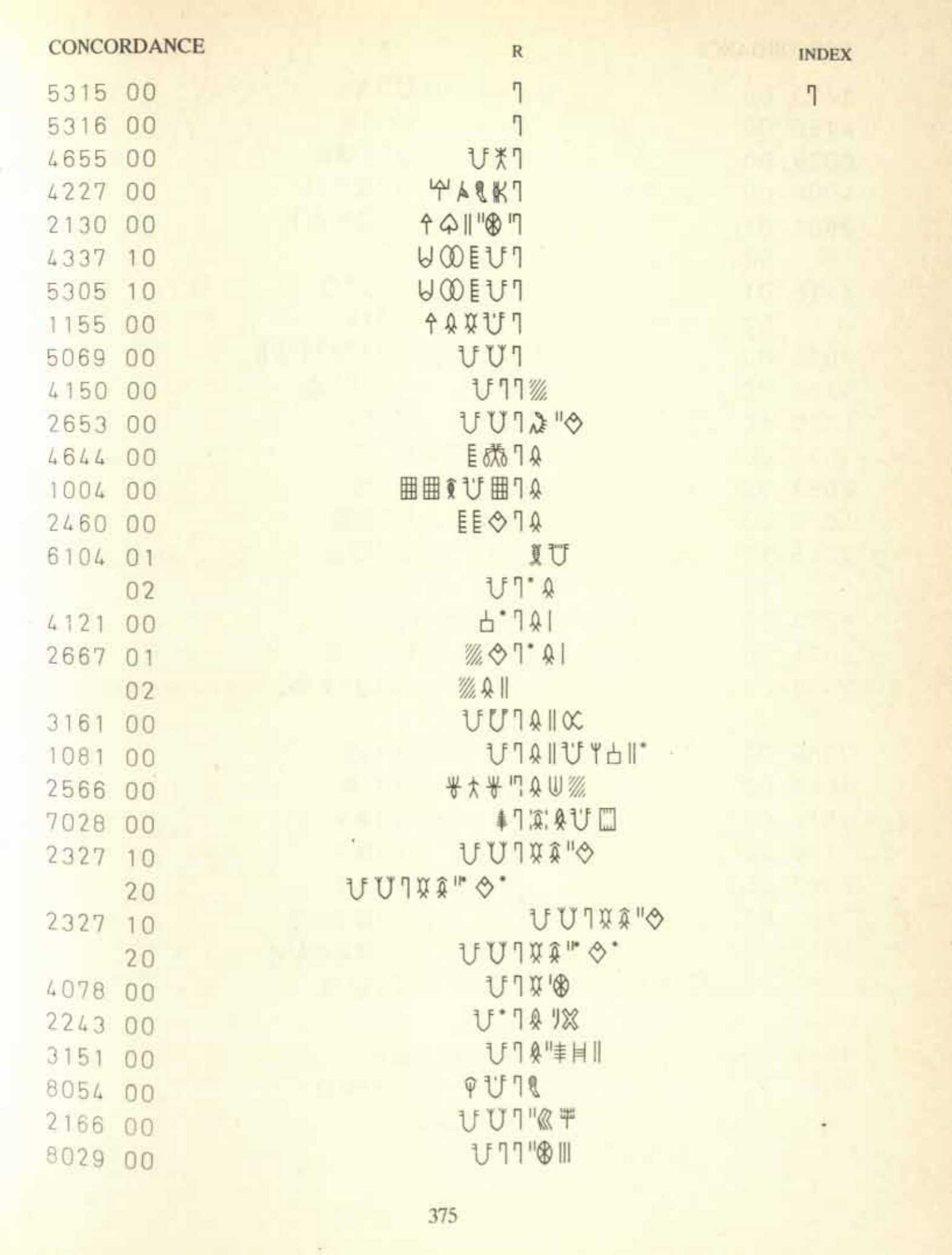

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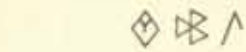
2866 10 
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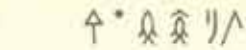
2532 00 
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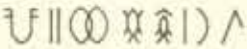
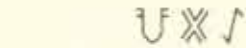
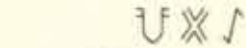
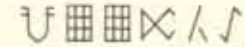
20 

1390 00 
2483 00 
2317 00 
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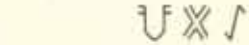
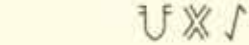
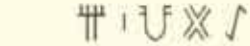
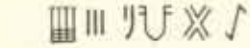
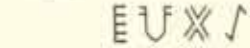
1619 10 
2091 00 
2369 00 
1713 10 
4666 10 
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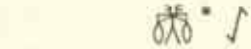
20 
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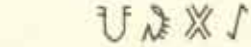
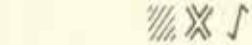
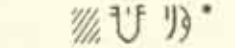
4019 00 
7283 10 
20 
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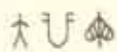
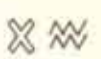
4037 00 

1102 00 

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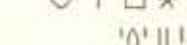
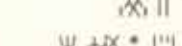
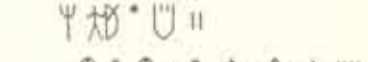
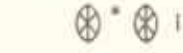
6116 01 
02 
2923 10 
20 
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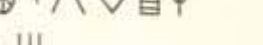
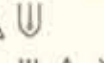
9903 00 
4328 10 
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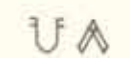
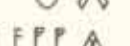
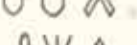
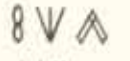
4691 10 
20 
4707 00 
5241 10 
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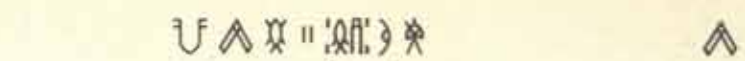
1373 00 
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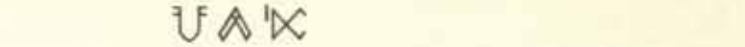
1355 01 
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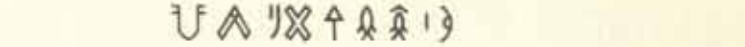
1321 01 
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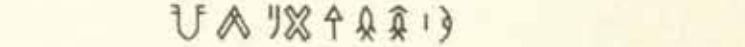
2398 01 
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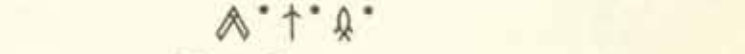
3253 00 
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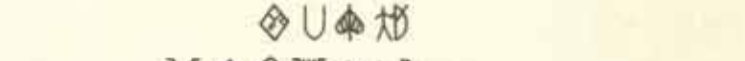
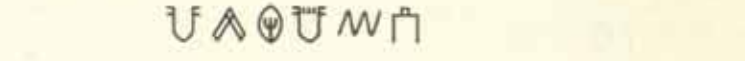
3234 10 
20 

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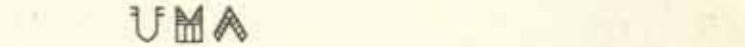
5336 10 
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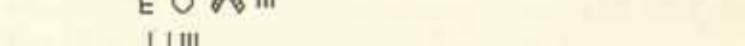
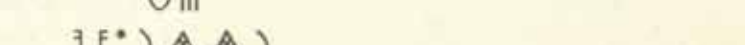
4605 10 
20 
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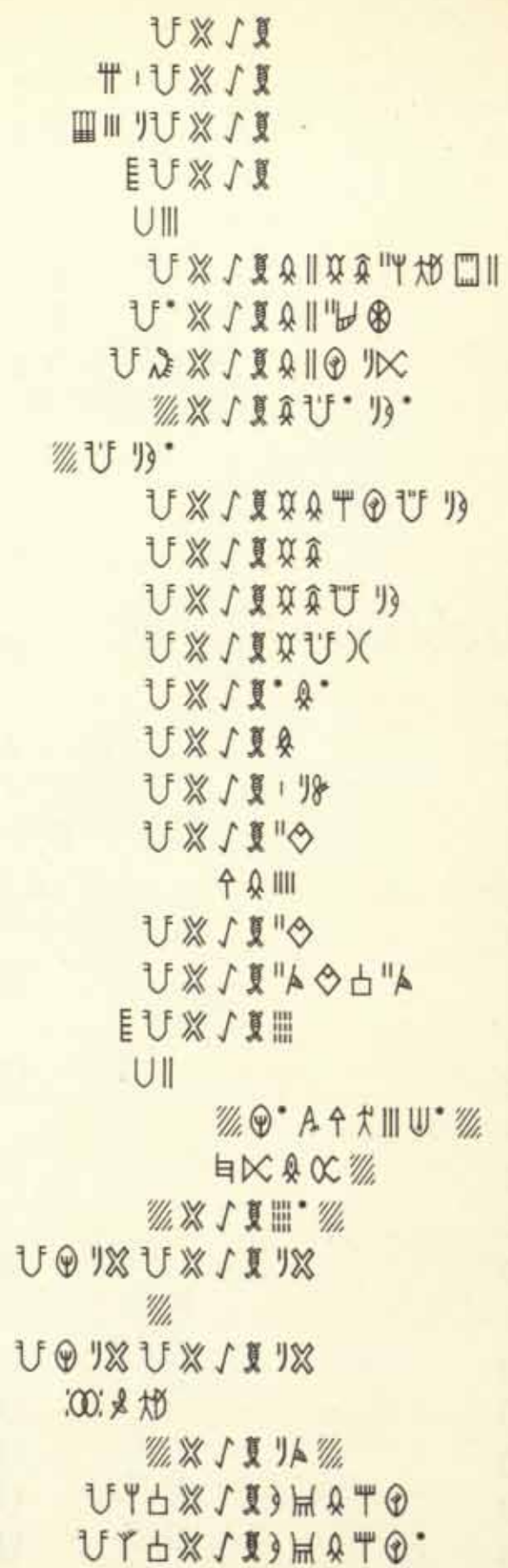

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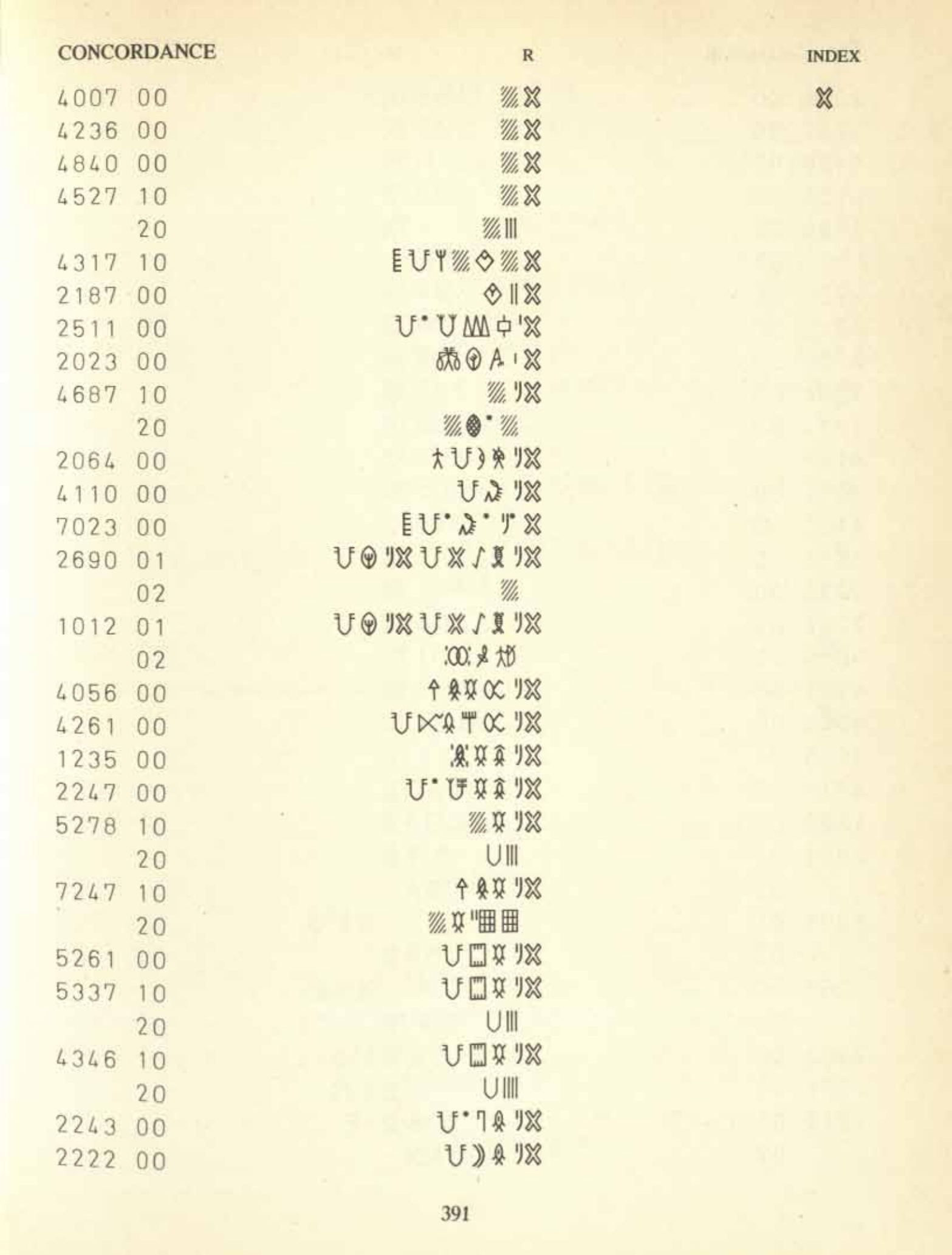

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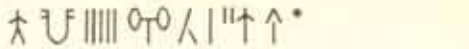
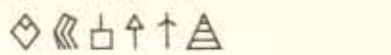
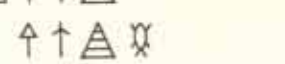
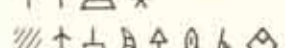
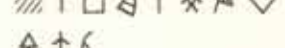
2581 00 

2495 00 

3165 00 

2393 00 

1225 00 

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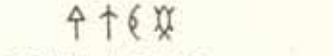
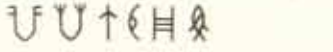
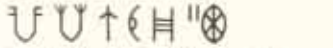
4262 00 

2056 00 

2290 00 

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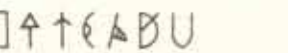
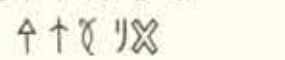
4230 00 

4811 00 

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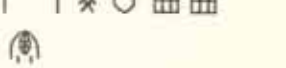
20 

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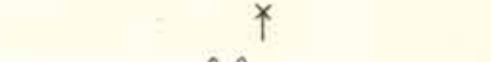
50 

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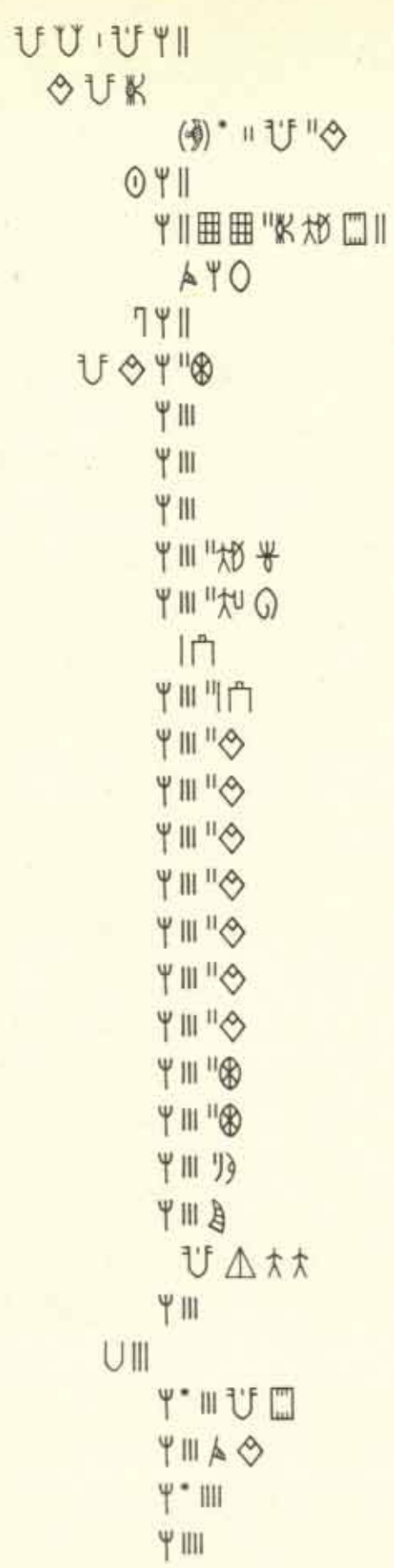

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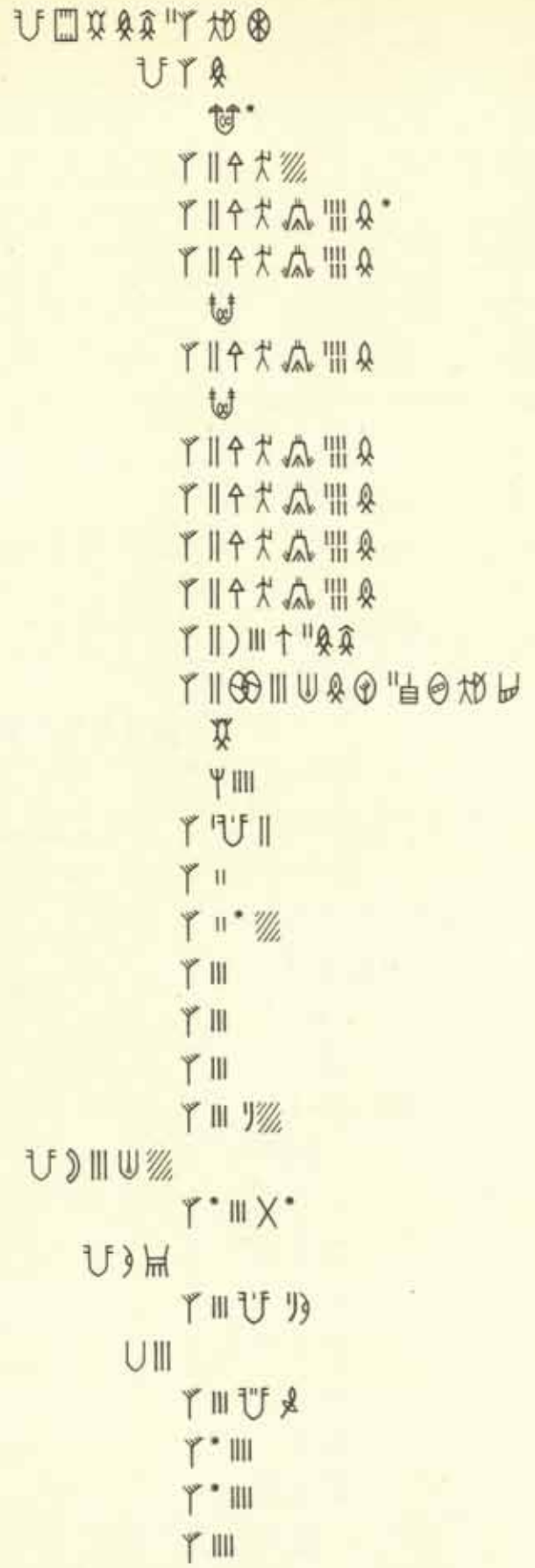

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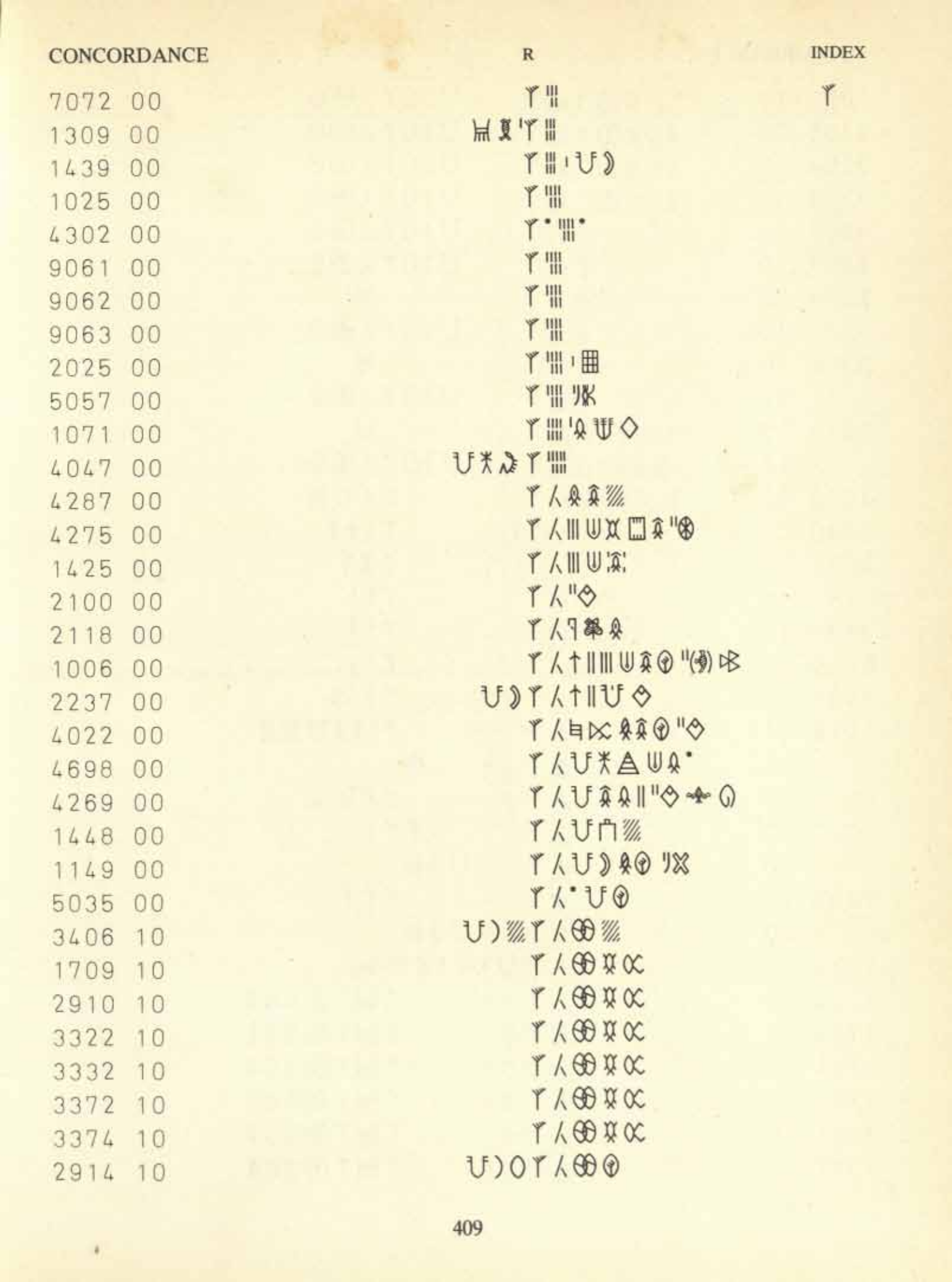

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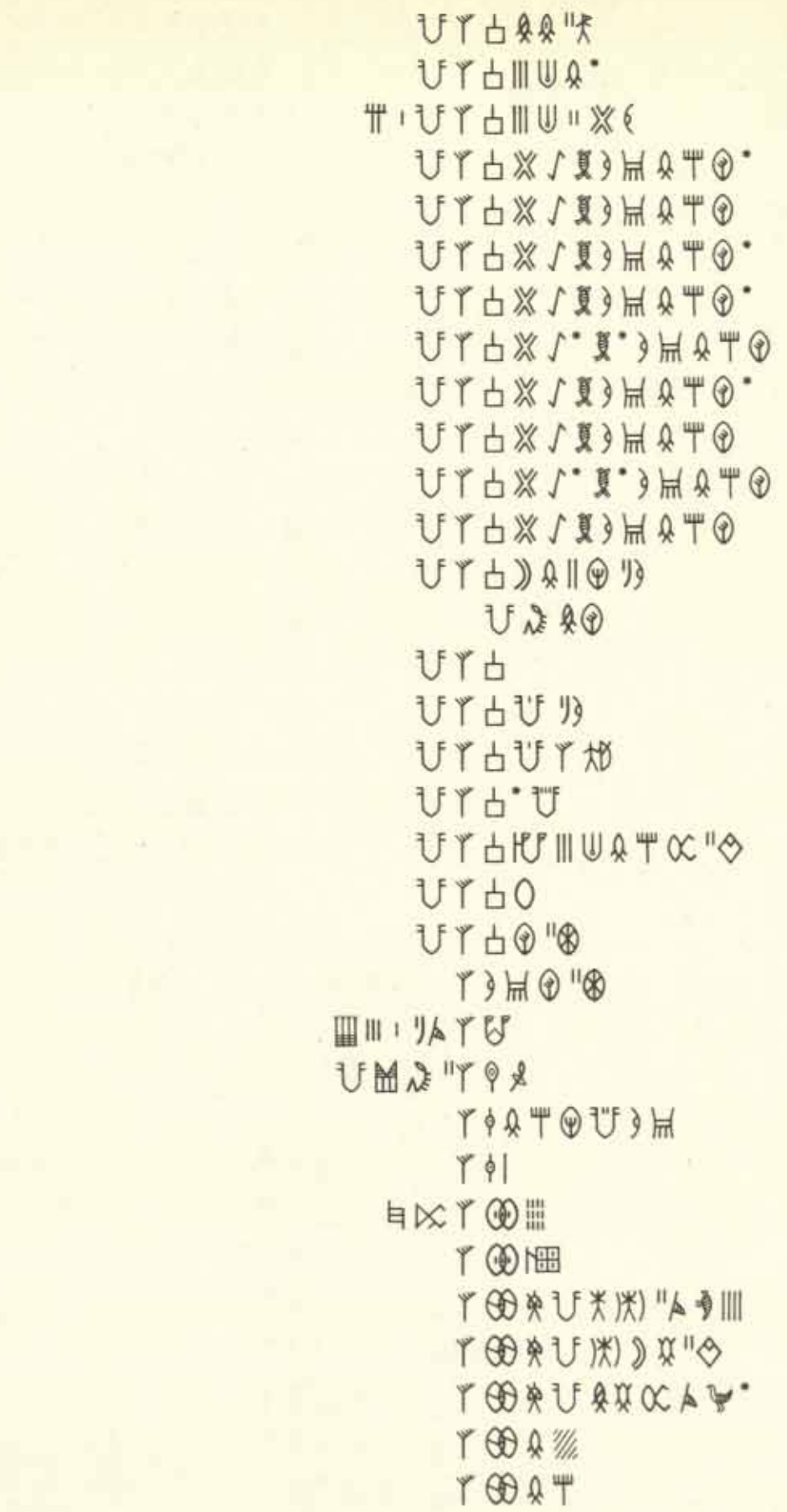

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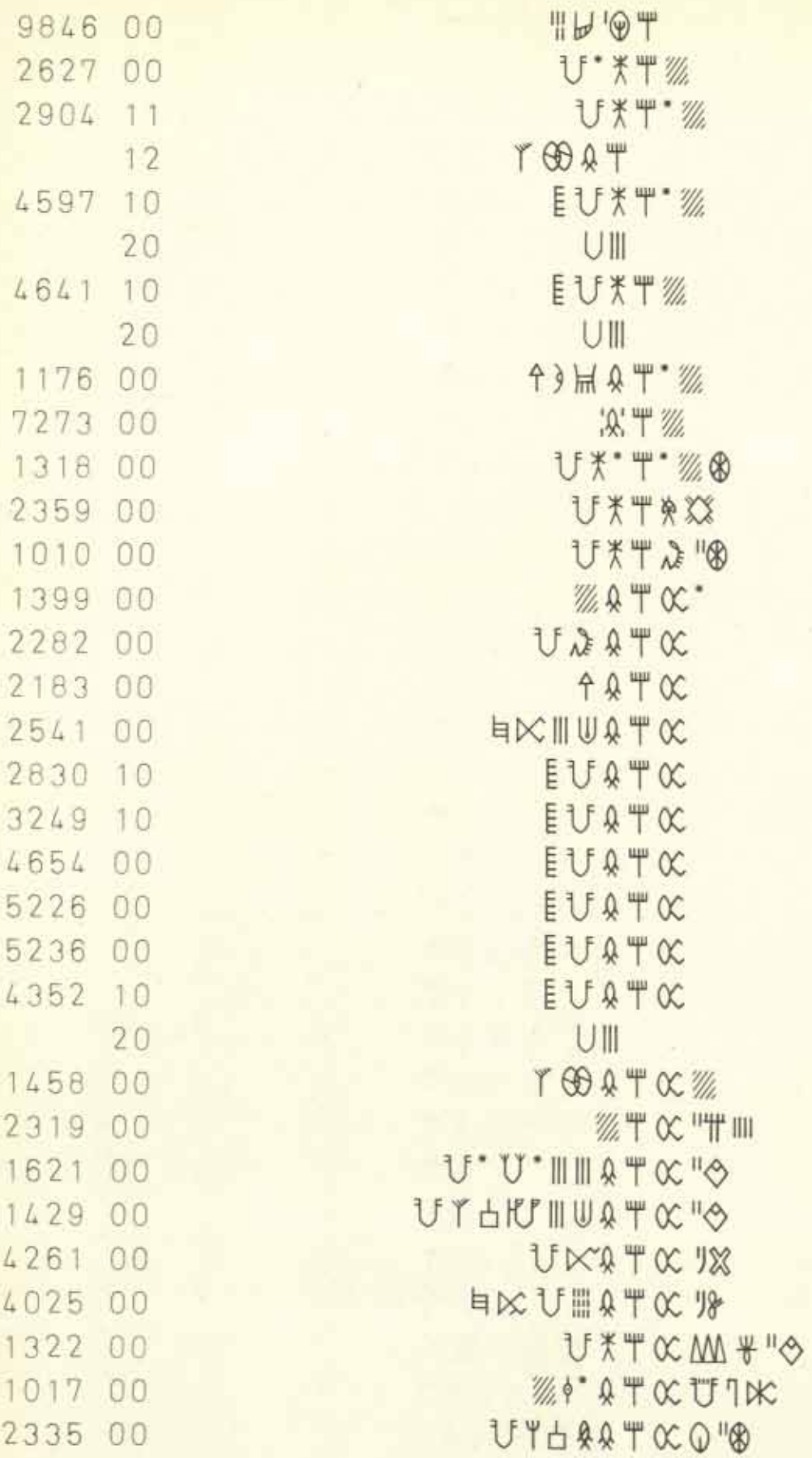

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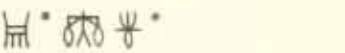
9842	00	
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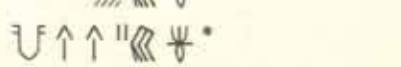
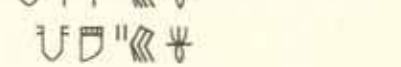
4067	00	
2216	00	
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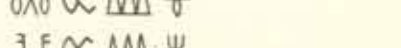
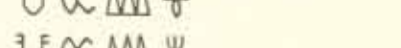
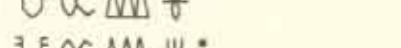
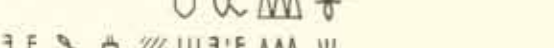
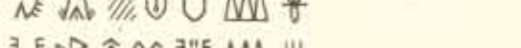
4331	10	
4332	10	
5340	10	
1020	00	
1420	00	
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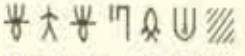
6402	01	
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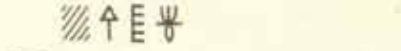
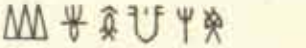
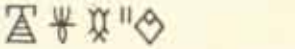
1555	00	
1367	00	
2402	00	

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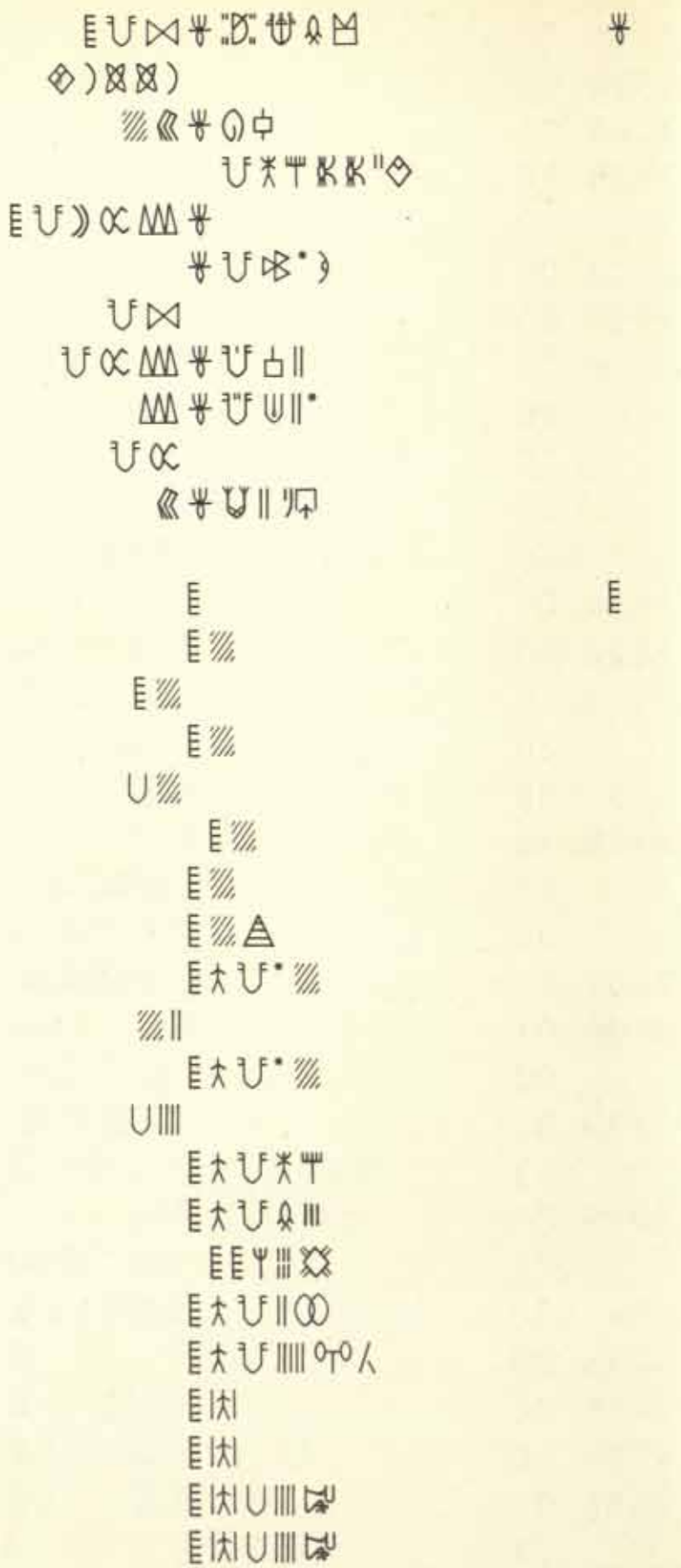

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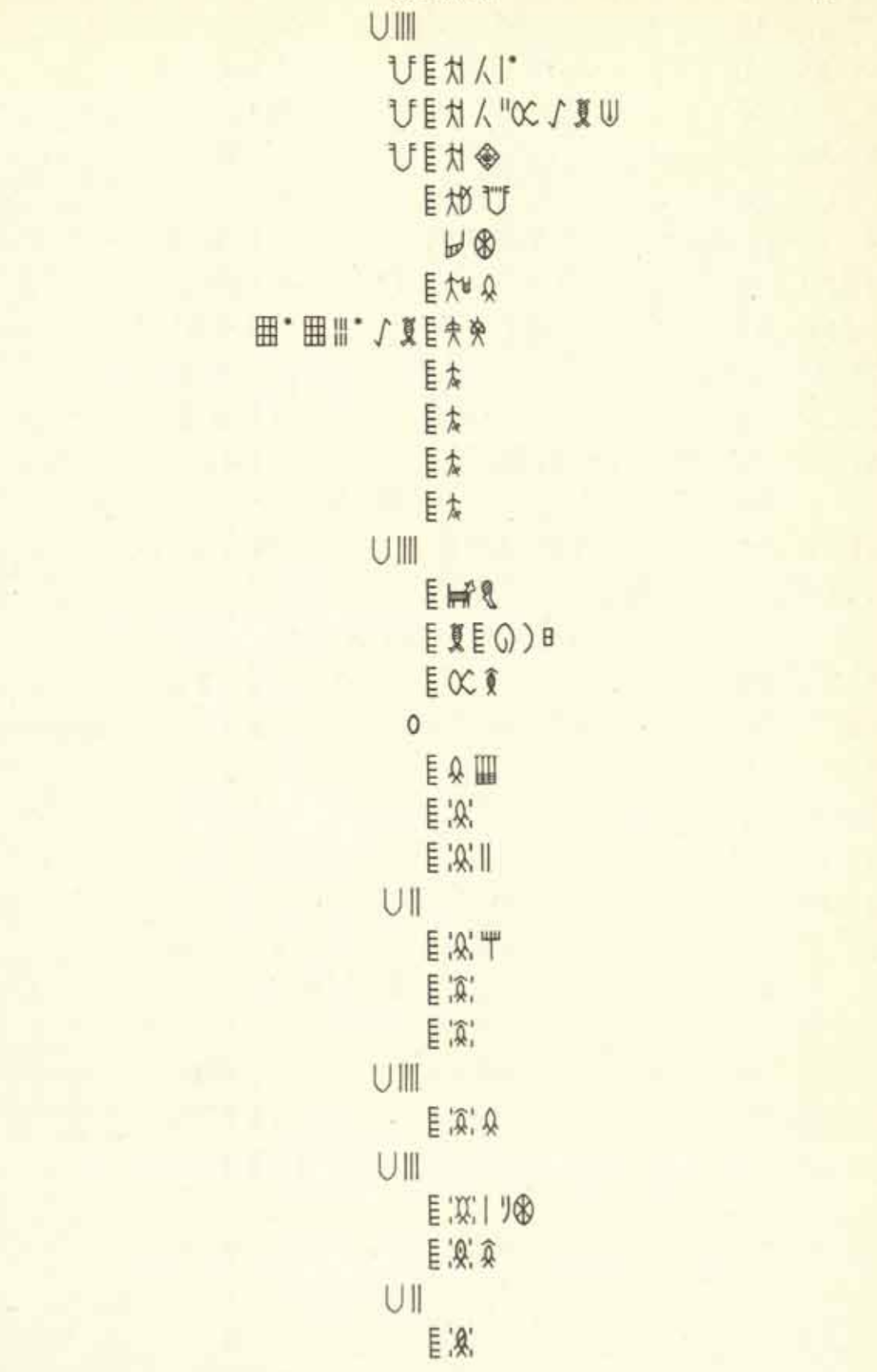

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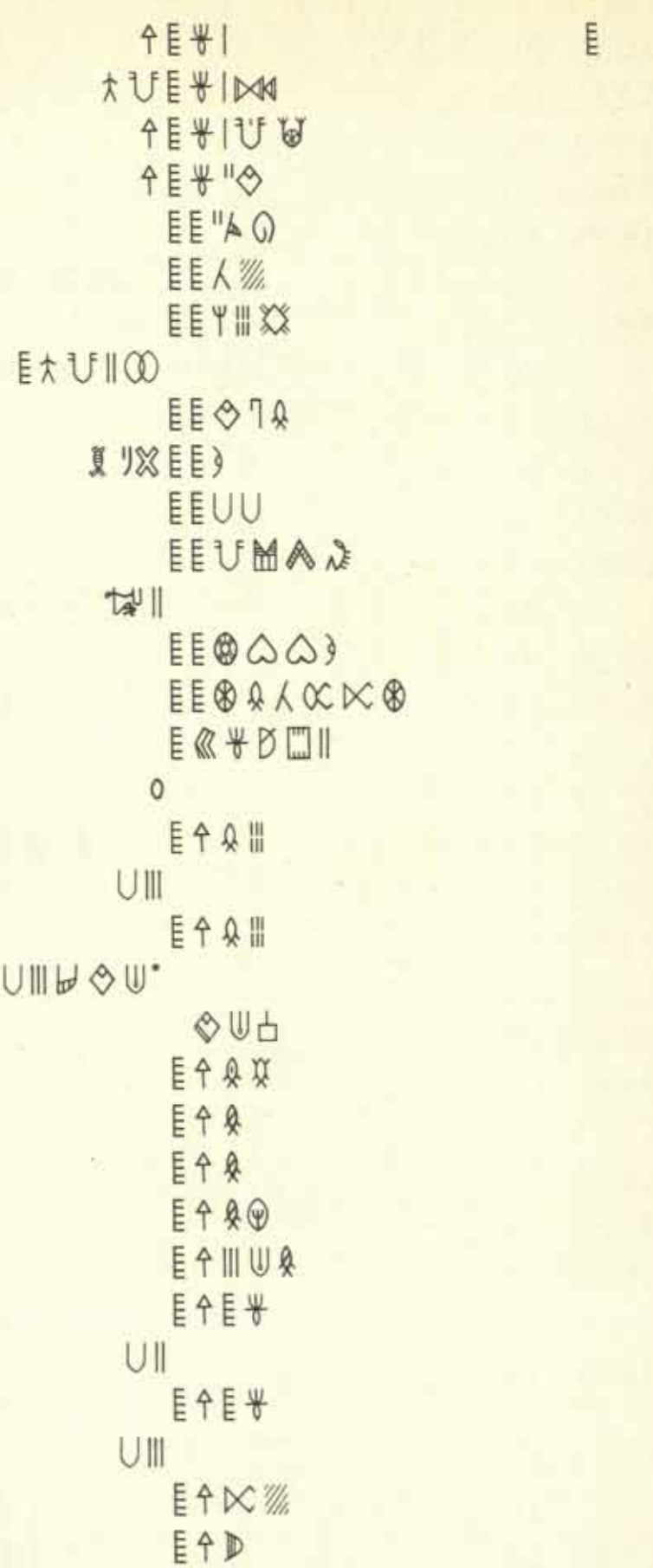

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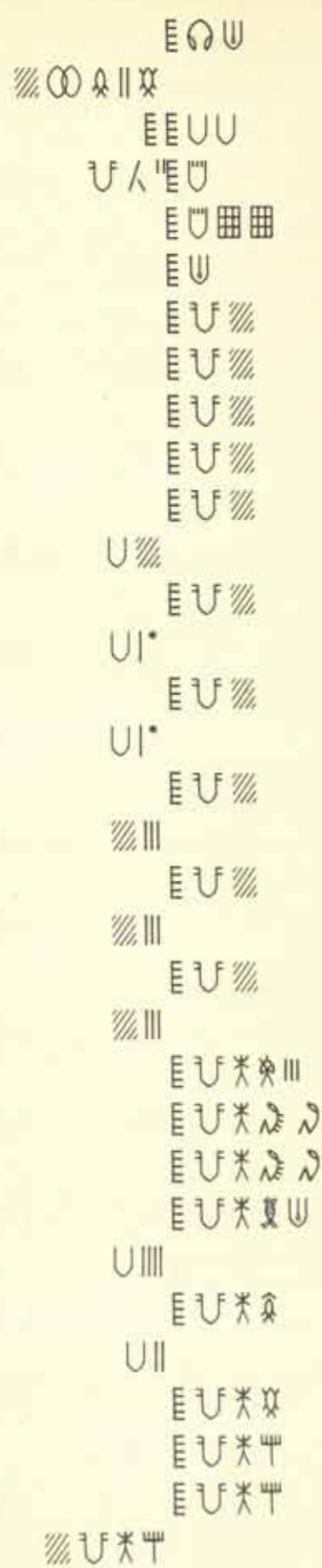

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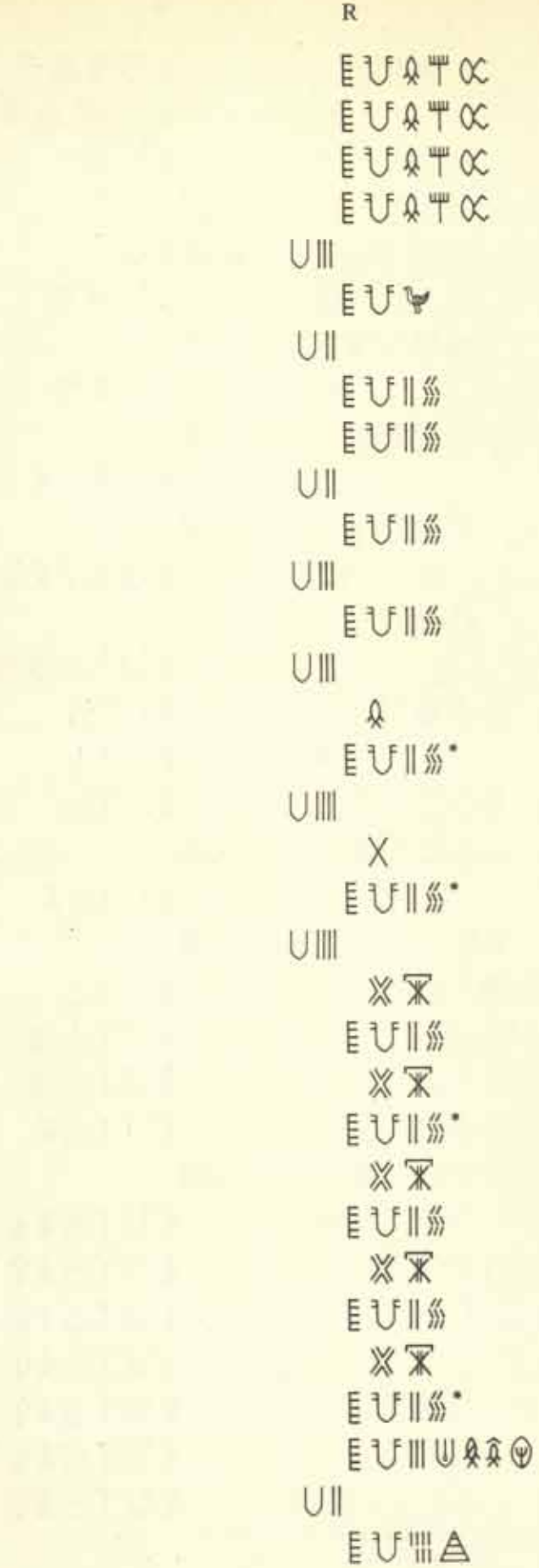

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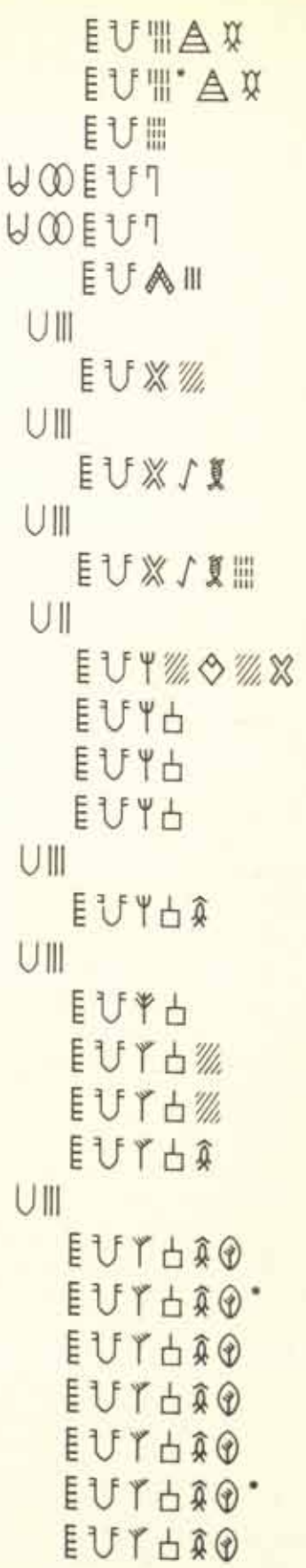

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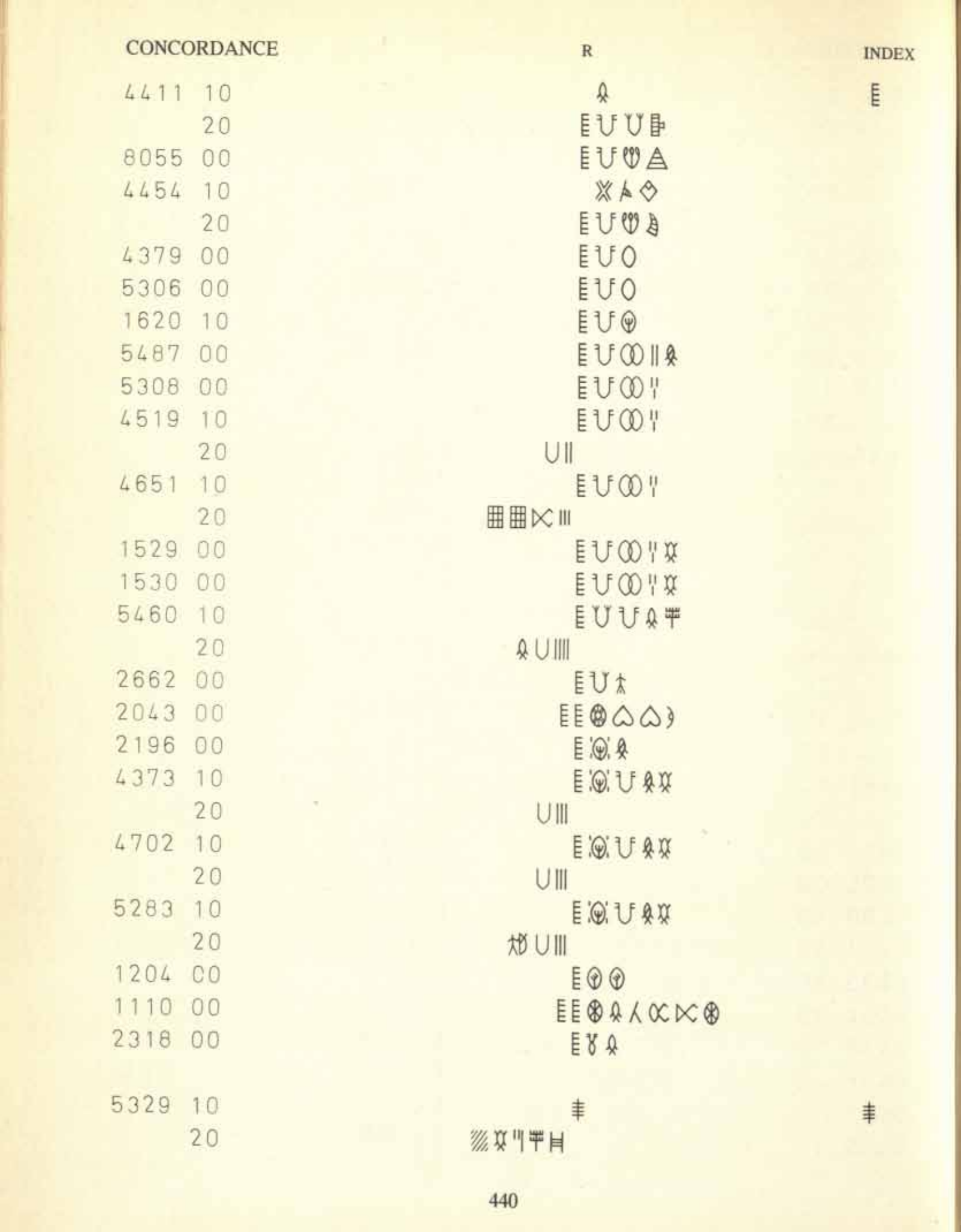

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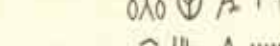
5101 00 
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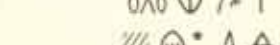
20 
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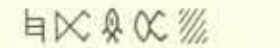
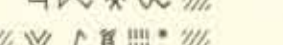
2810 10 
20 
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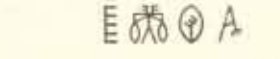
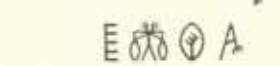
4105 00 

1400 01 
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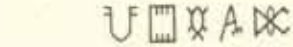
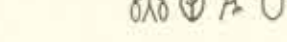
03 

3113 00 
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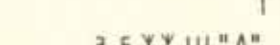
1357 00 
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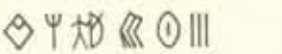
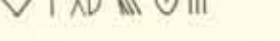
20 
30 
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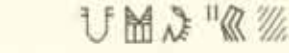
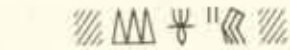
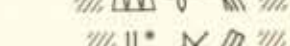
3087 00 
2128 00 
4024 00 

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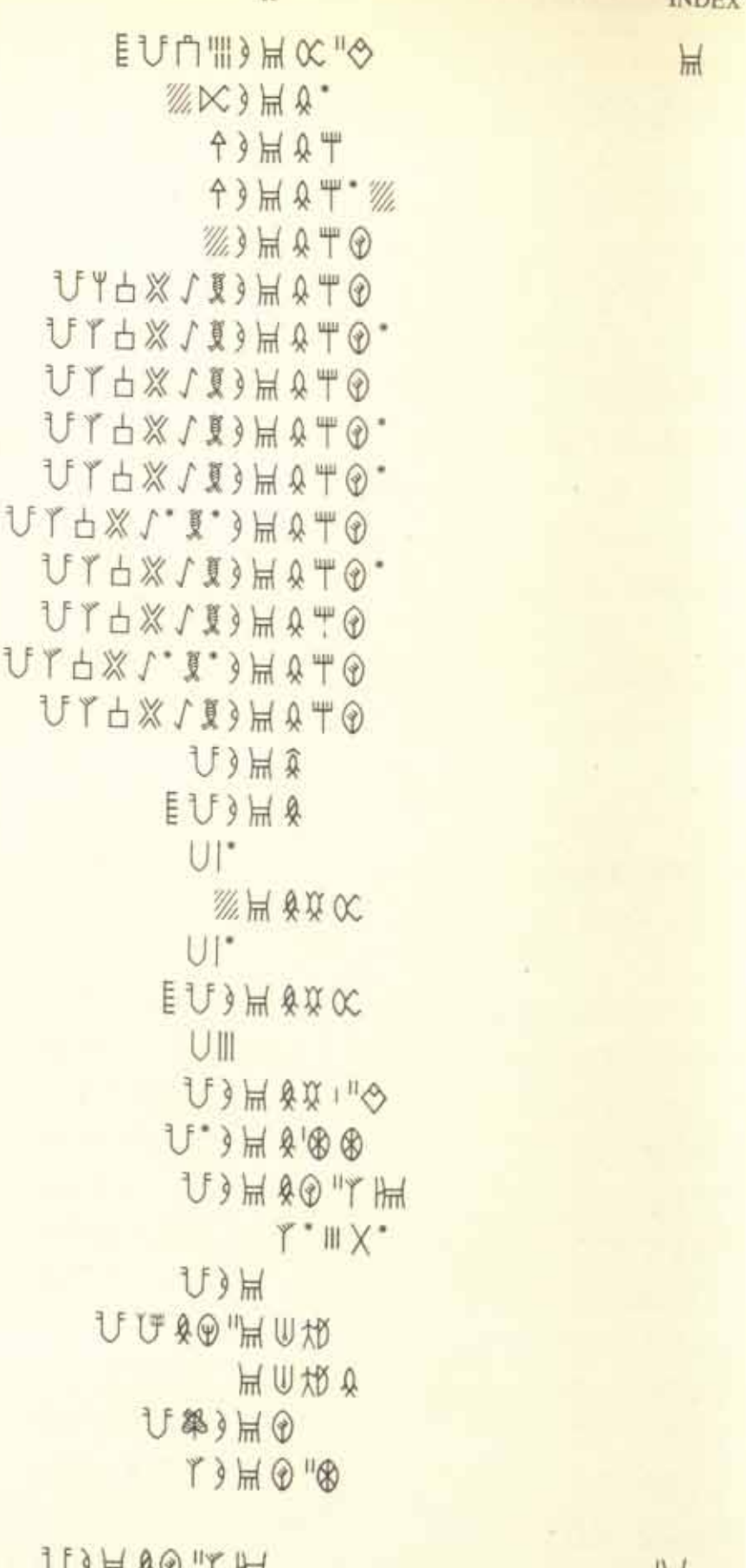

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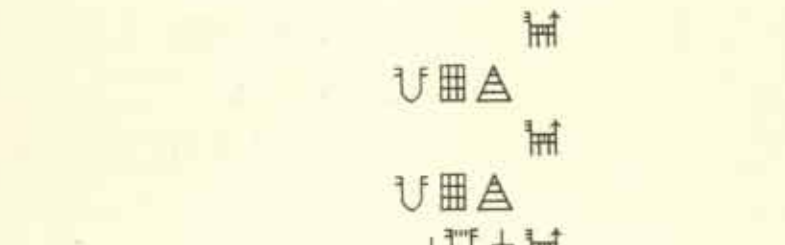

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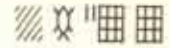
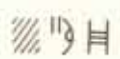
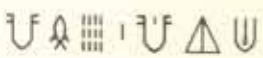
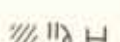
7219	10	
	20	
7236	10	
	20	
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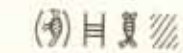
2095	00	
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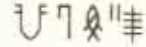
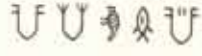
3151	00	
1342	00	
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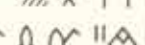
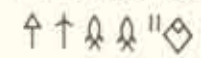
	20	
2826	00	
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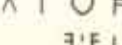
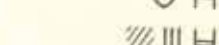
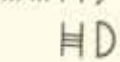
5078	00	
4245	00	
2665	00	
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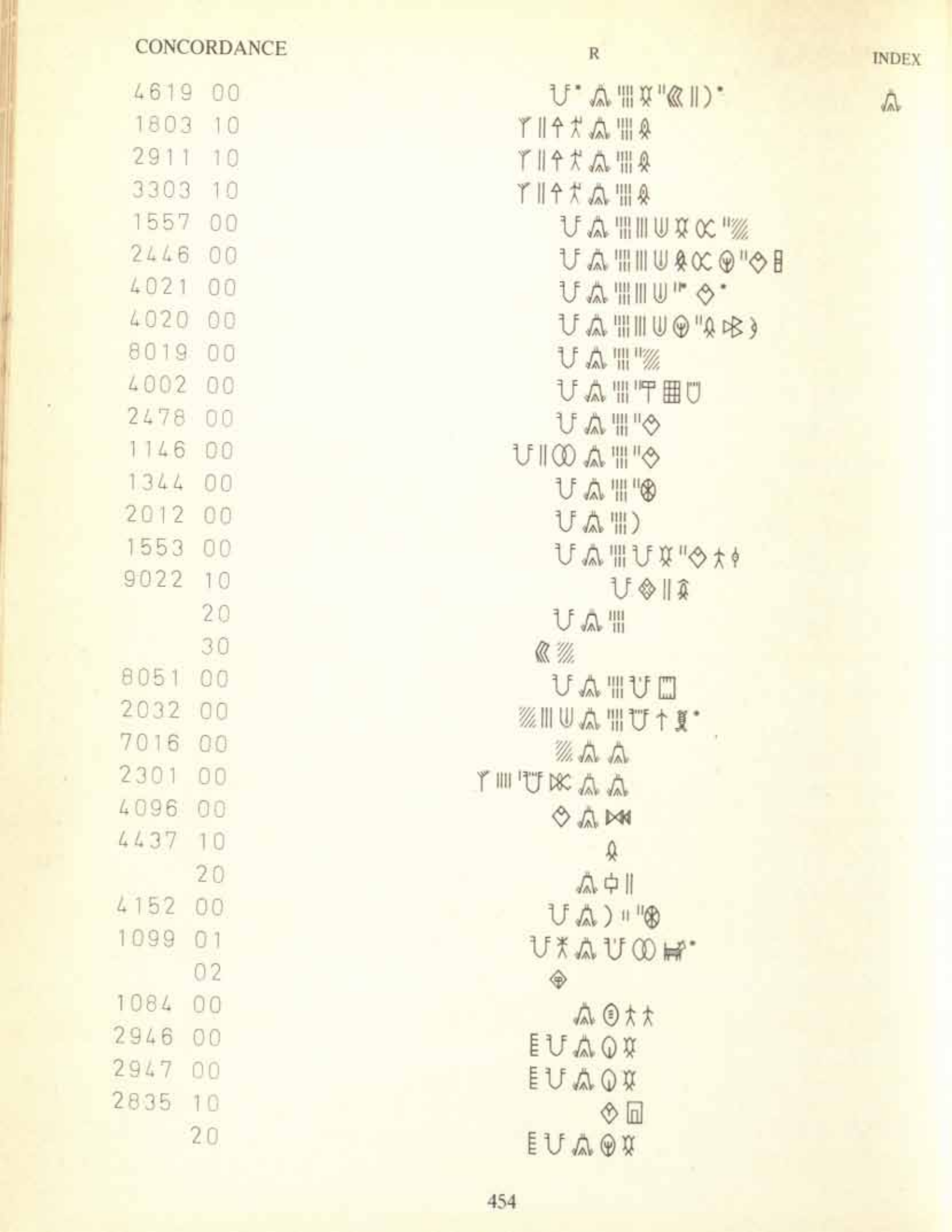

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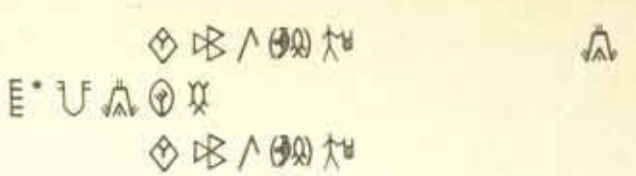

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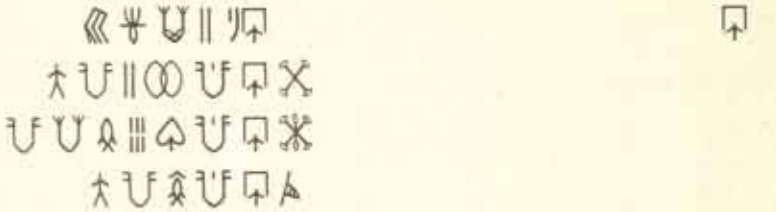

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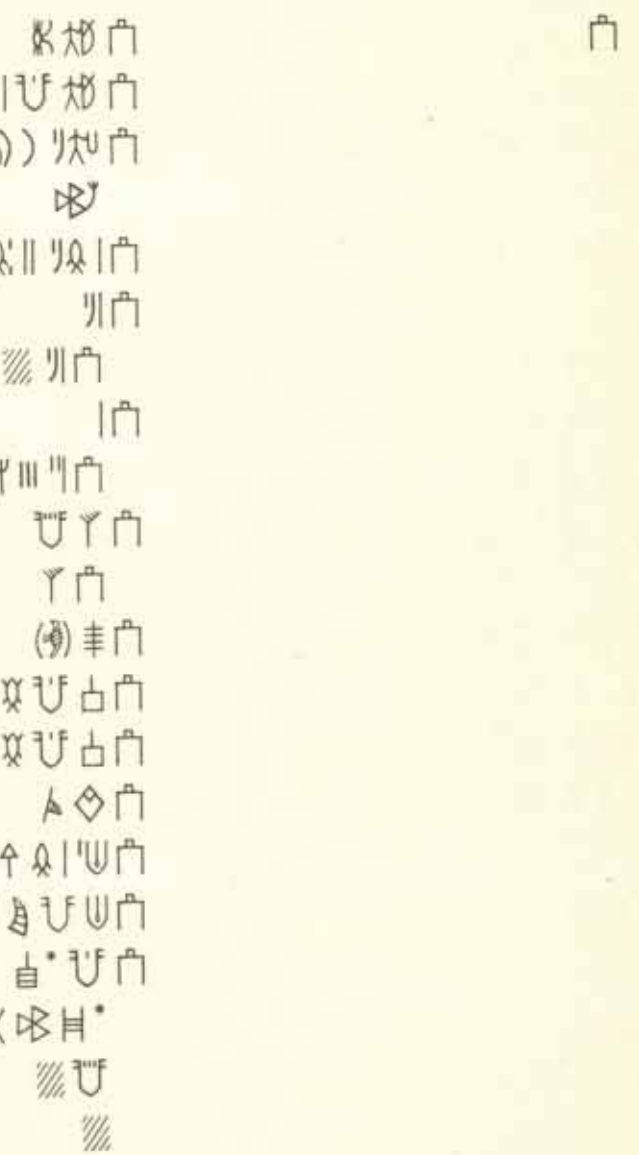
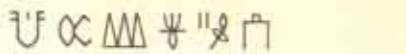
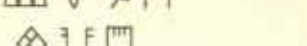


1139	01	
	02	
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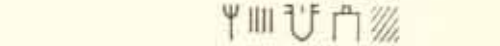
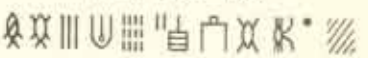
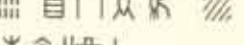
4271	00	
7080	00	
4244	00	
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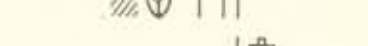
1026	00	
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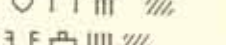
4616	00	
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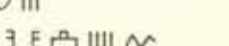
2013	00	
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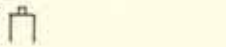
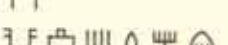
1211	00	
1113	00	
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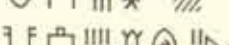
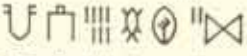
7099	10	
	20	
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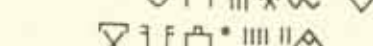
	02	

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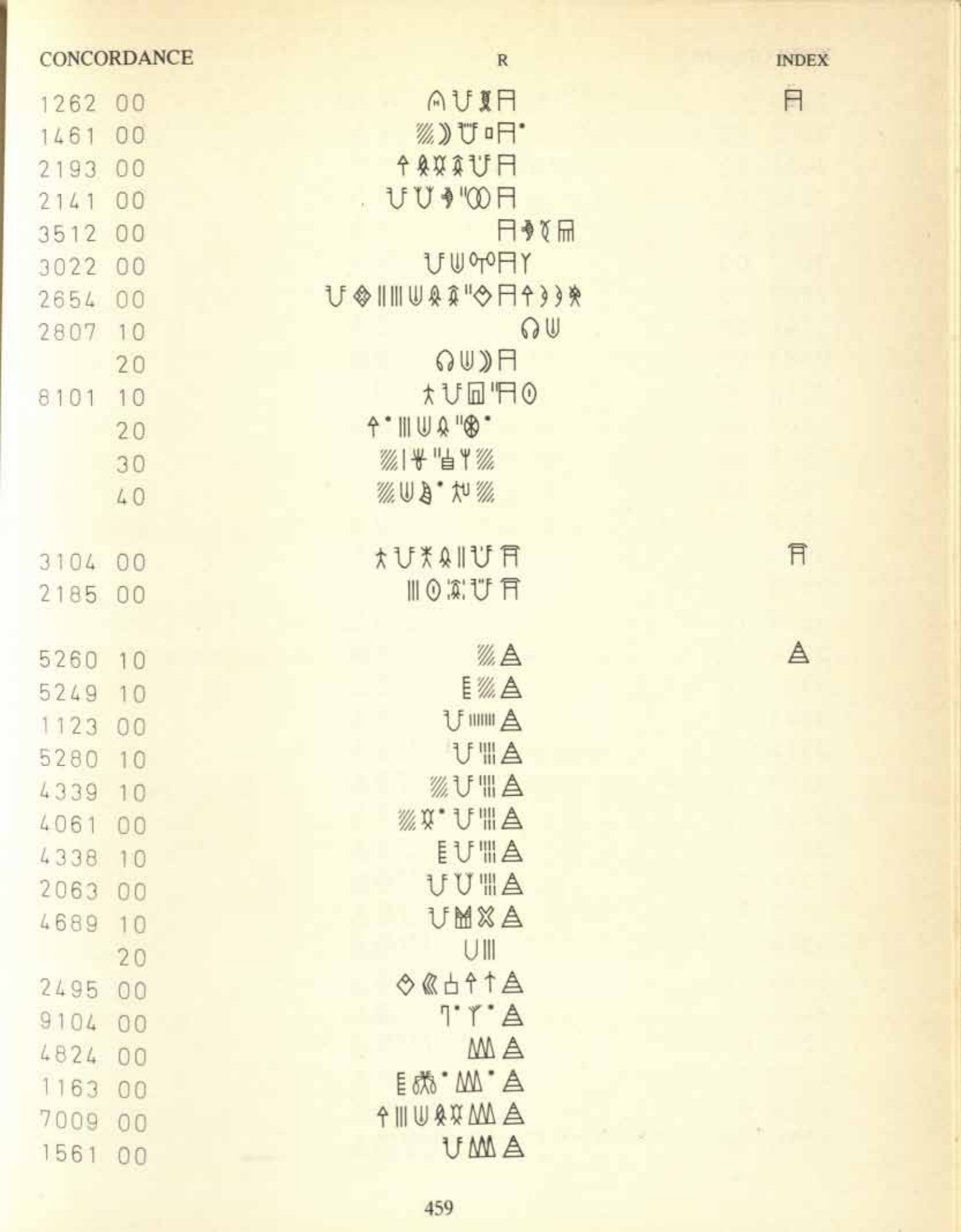
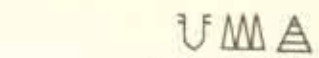
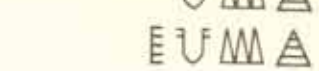
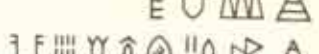
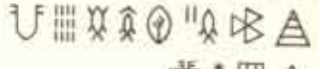
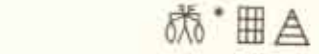


2499 00	
5282 10	
2033 00	
2372 00	
4284 00	
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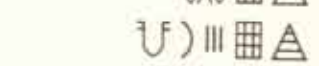
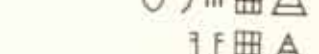
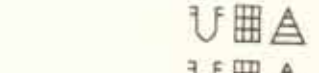
1707 10	
2294 00	
2663 00	
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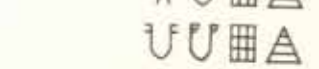
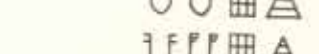
1804 10	
1806 10	
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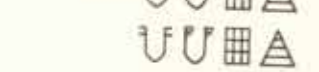
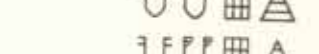
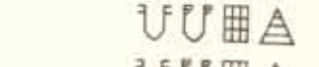
3339 10	
3341 10	
3342 10	
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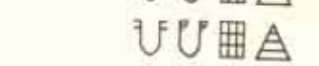
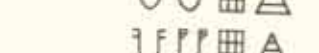
3361 10	
3371 10	
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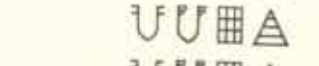
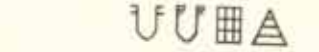
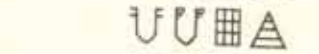
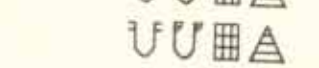
3386 10	
3403 10	
3404 10	
7244 00	
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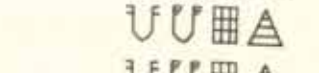
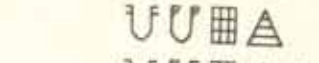
4079 00	
8055 00	

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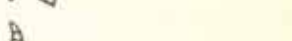
	20	
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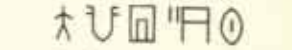
	30	
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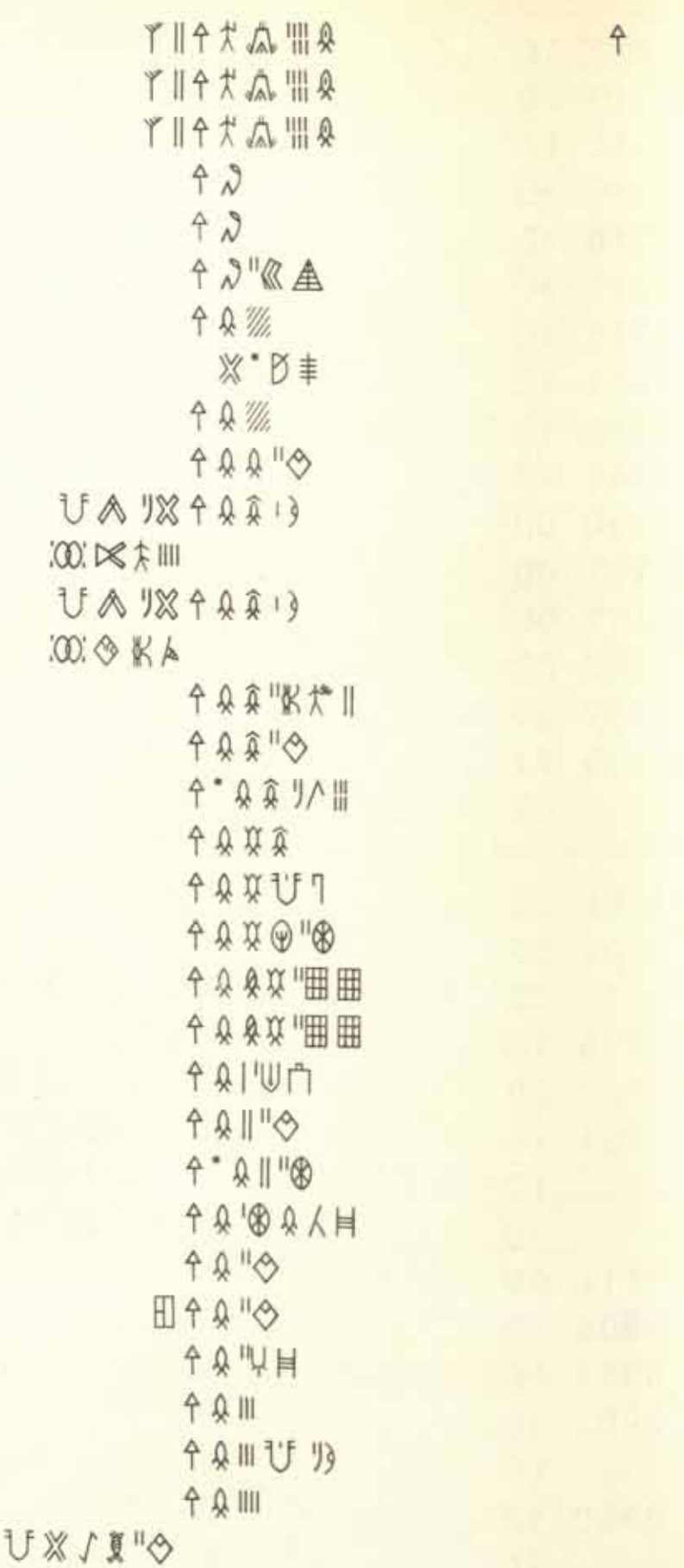

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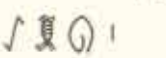
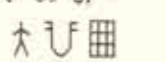
	20	
	30	
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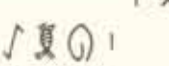
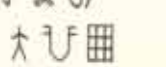
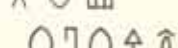
	20	
	30	
2536	00	
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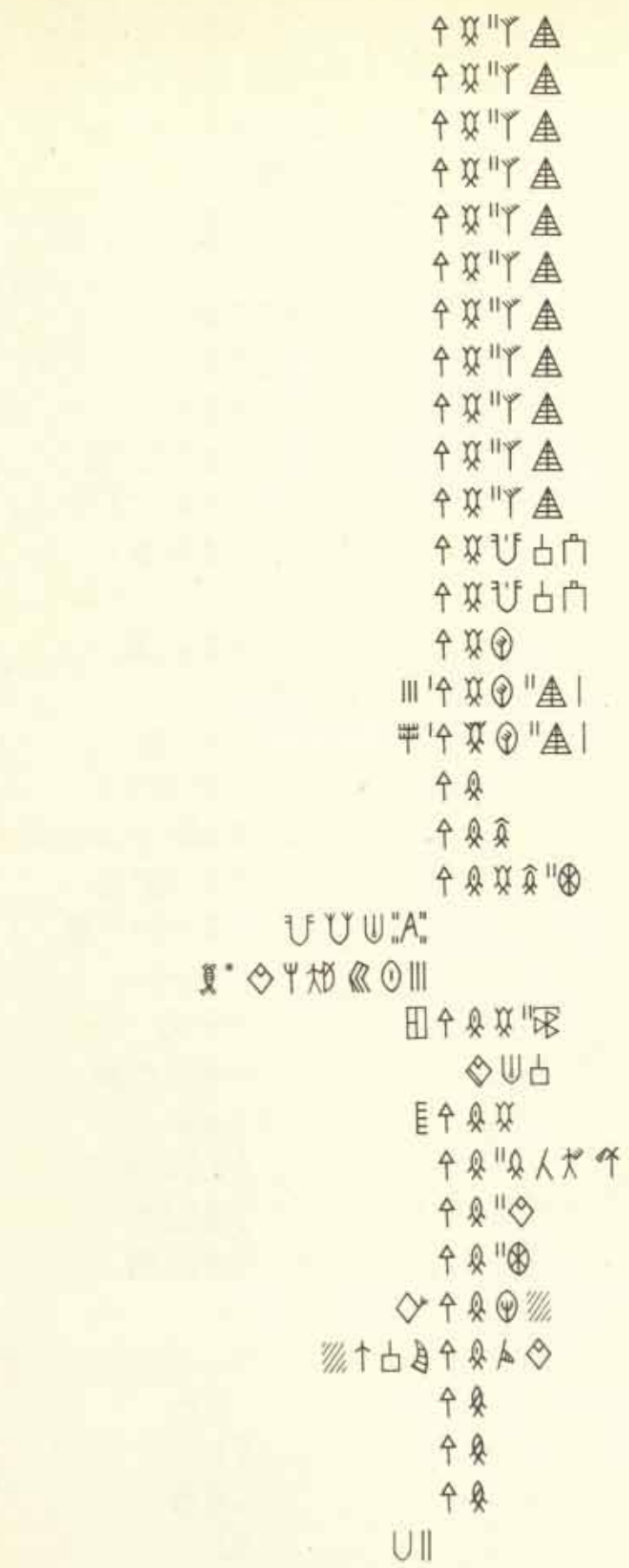

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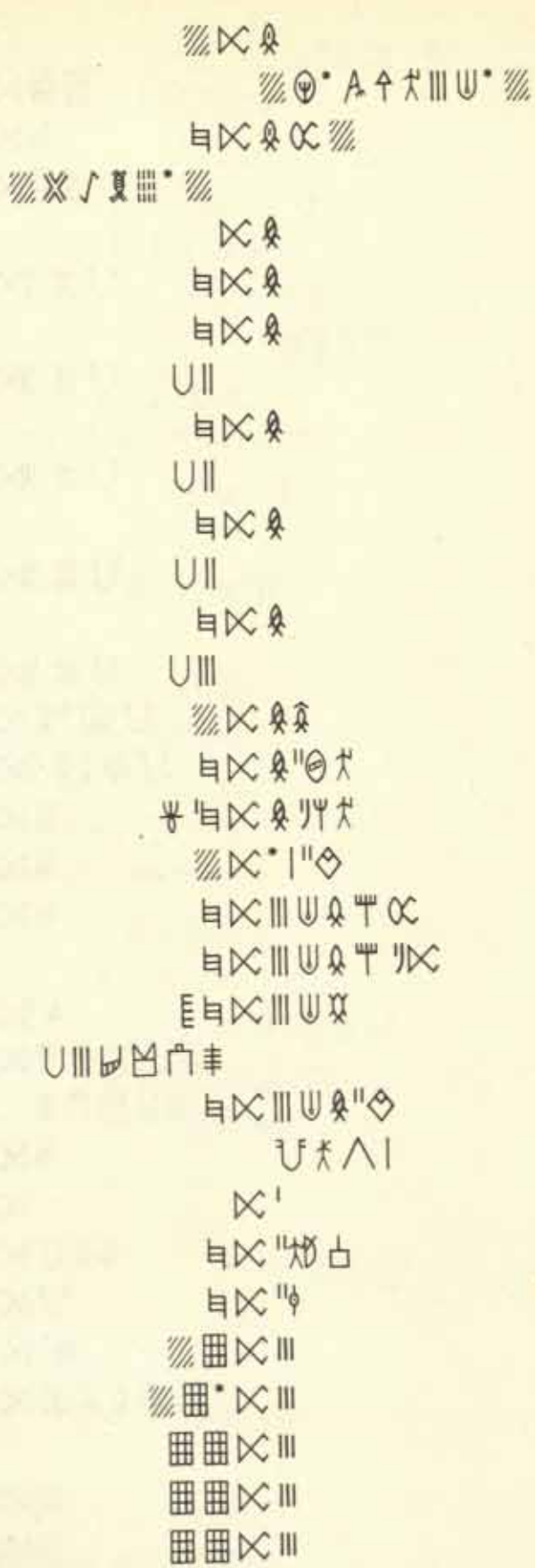
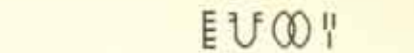
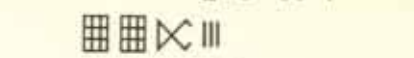
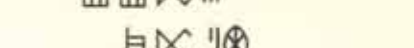
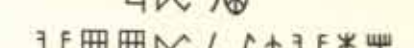
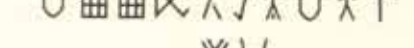
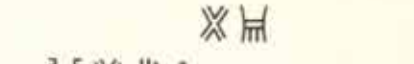
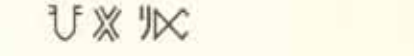


4651 10 
20 
5299 10 
2317 00 
1412 10 
20 
2220 10 
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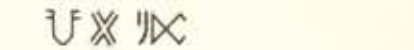
2505 10 
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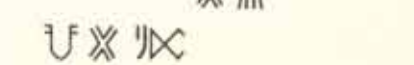
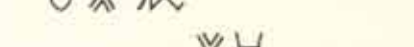
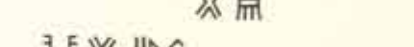
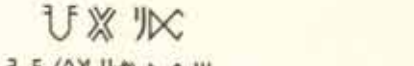
2508 10 
20 
2451 00 
2406 00 
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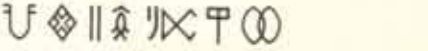
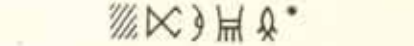
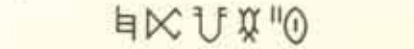
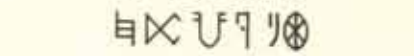
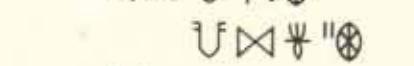
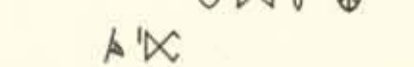
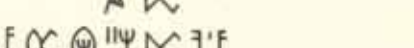
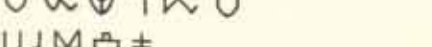
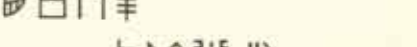
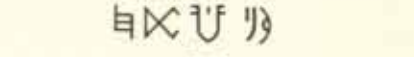
2281 00 
7069 00 
2689 01 
02 
4351 10 
20 
2010 00 
8212 00 
9101 00 
3504 00 
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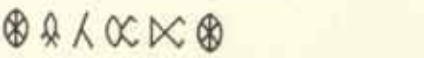
5501 00 

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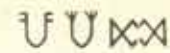
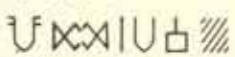
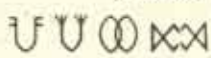
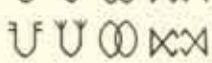
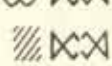
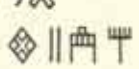
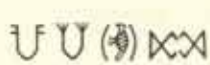
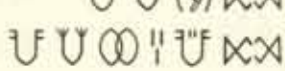
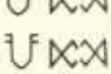
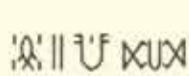
02 
7280 00 
2363 00 
2486 00 
2311 00 
4583 10 
20 
8039 00 
2362 00 

3112 00 

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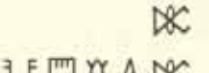
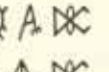
2334 00 
5228 00 
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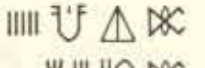
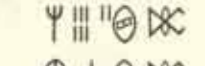
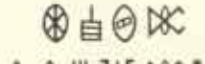
1035 00 
2651 00 
2681 00 
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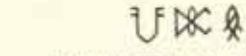
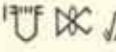
2301 00 
2430 01 
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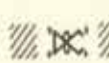
2151 00 

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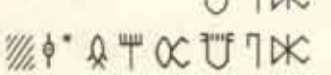
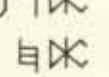
1017 00 
1533 00 

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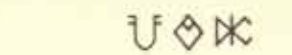

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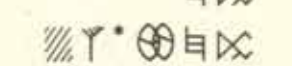

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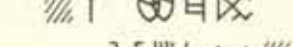

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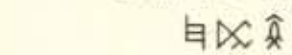

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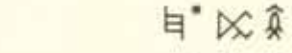

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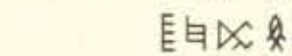

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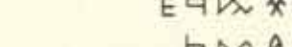

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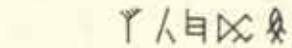

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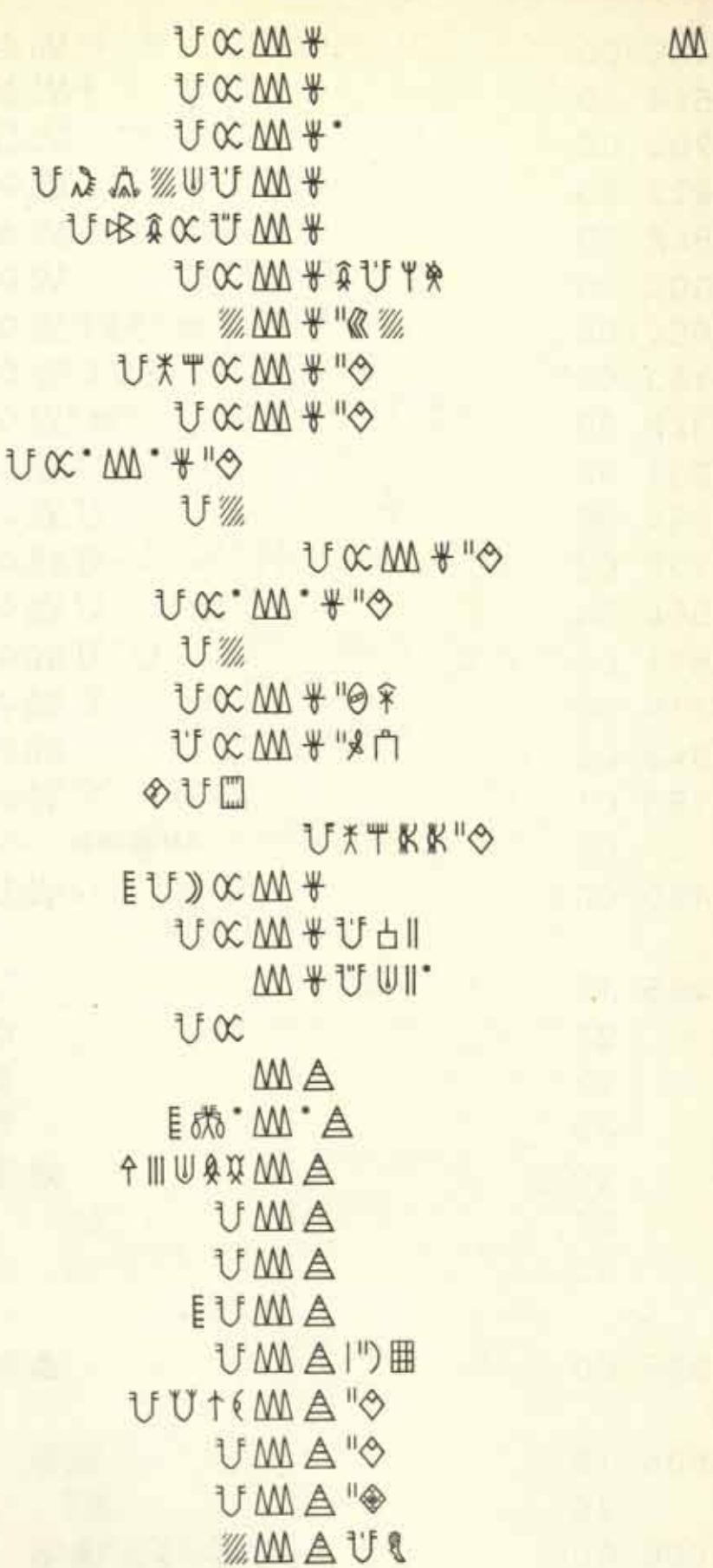

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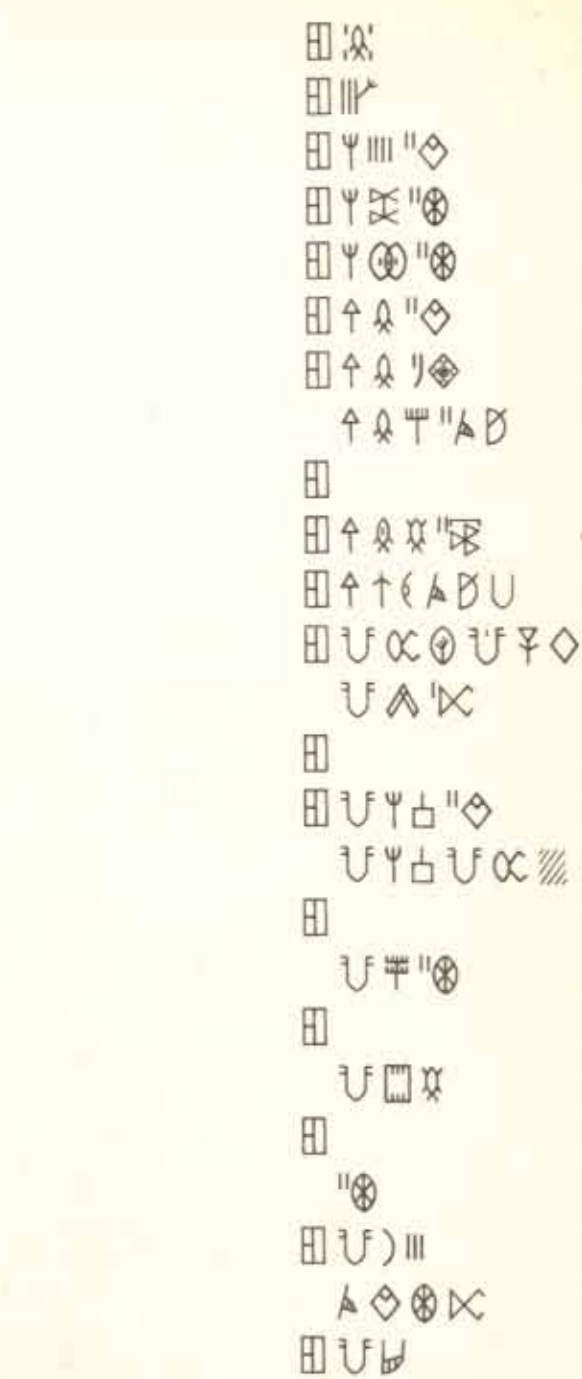

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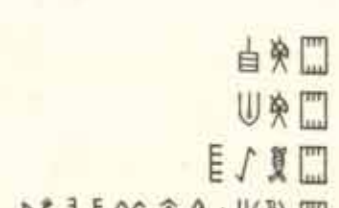

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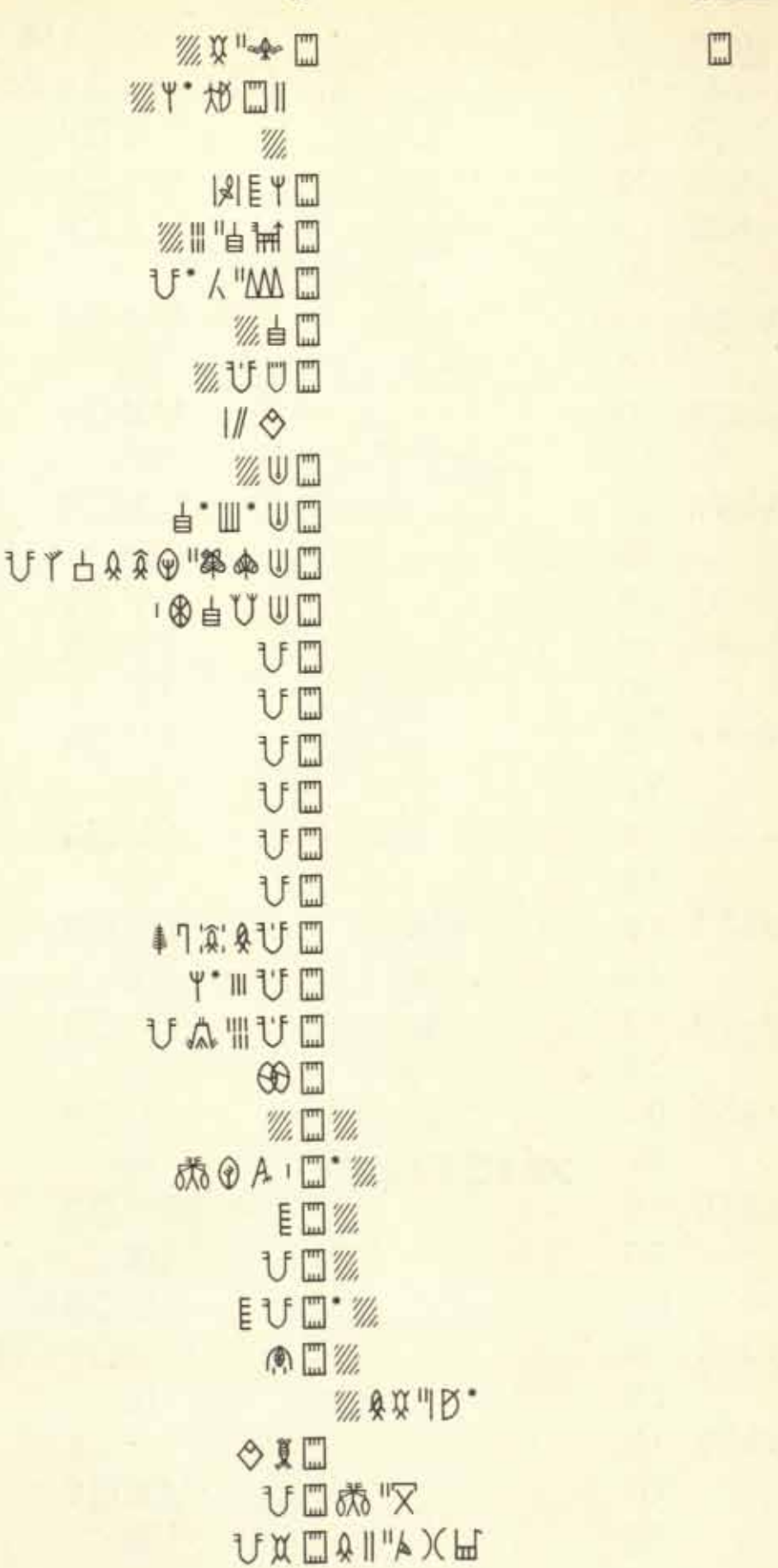
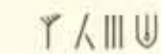
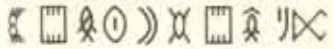


4275	00	
1421	00	
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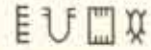
5473	10	
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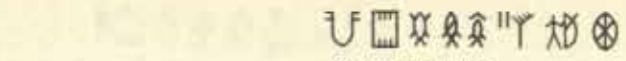
2271	00	
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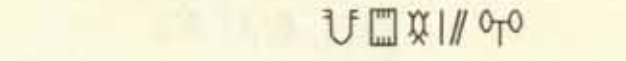
	20	
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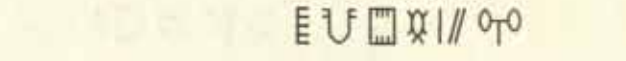
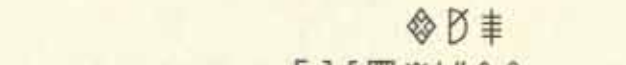
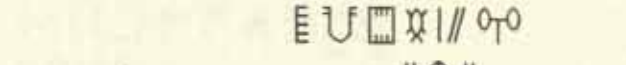
	20	
4573	10	
	20	
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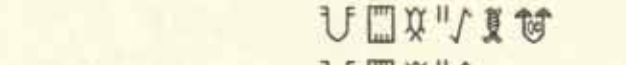
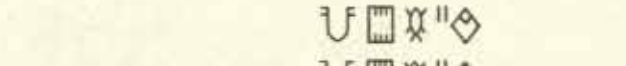
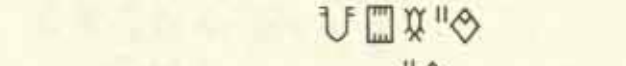
	20	
2618	00	
4090	00	
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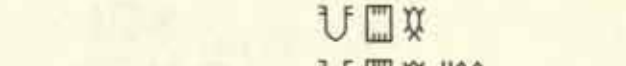
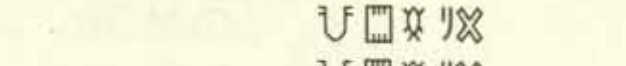
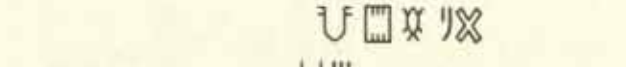
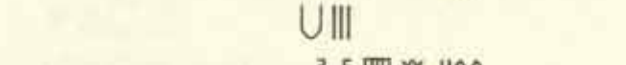
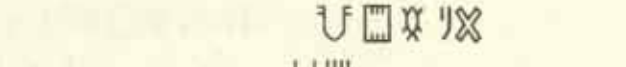
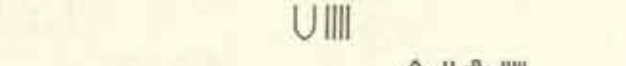
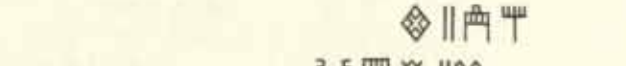
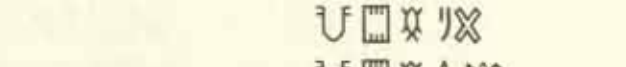
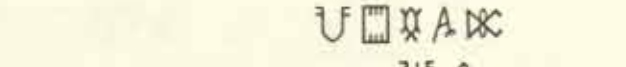
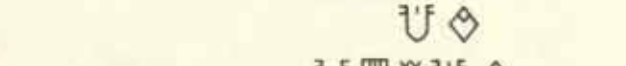
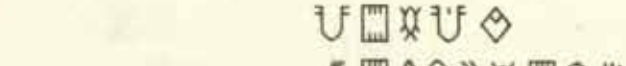
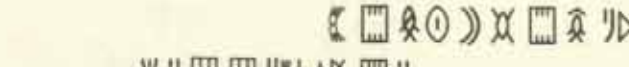
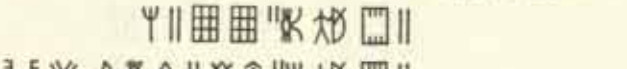
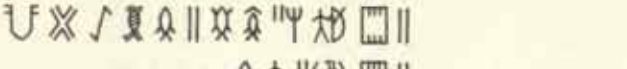
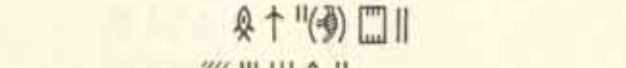
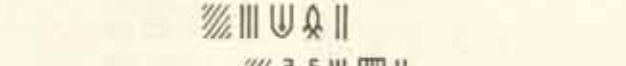
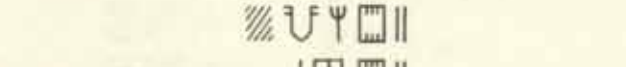
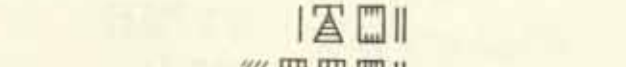
	02	
5261	00	
5337	10	
	20	
4346	10	
	20	
4584	10	
	20	
2334	00	
5056	10	
	20	
1421	00	
2027	00	
1087	00	
2024	01	
	02	
2137	00	
8009	00	
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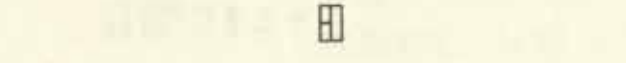
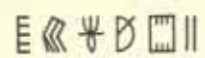
	02	

2466 01 
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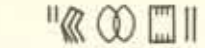
6403 01 
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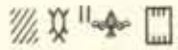
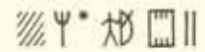
2228 01 
02 
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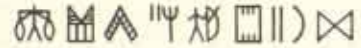
2018 00 
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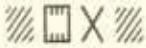
4185 00 
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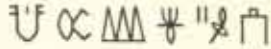
1139 01 
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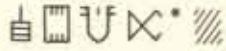
4265 00 
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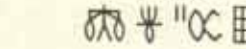
1121 00 
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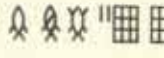
7220 00 

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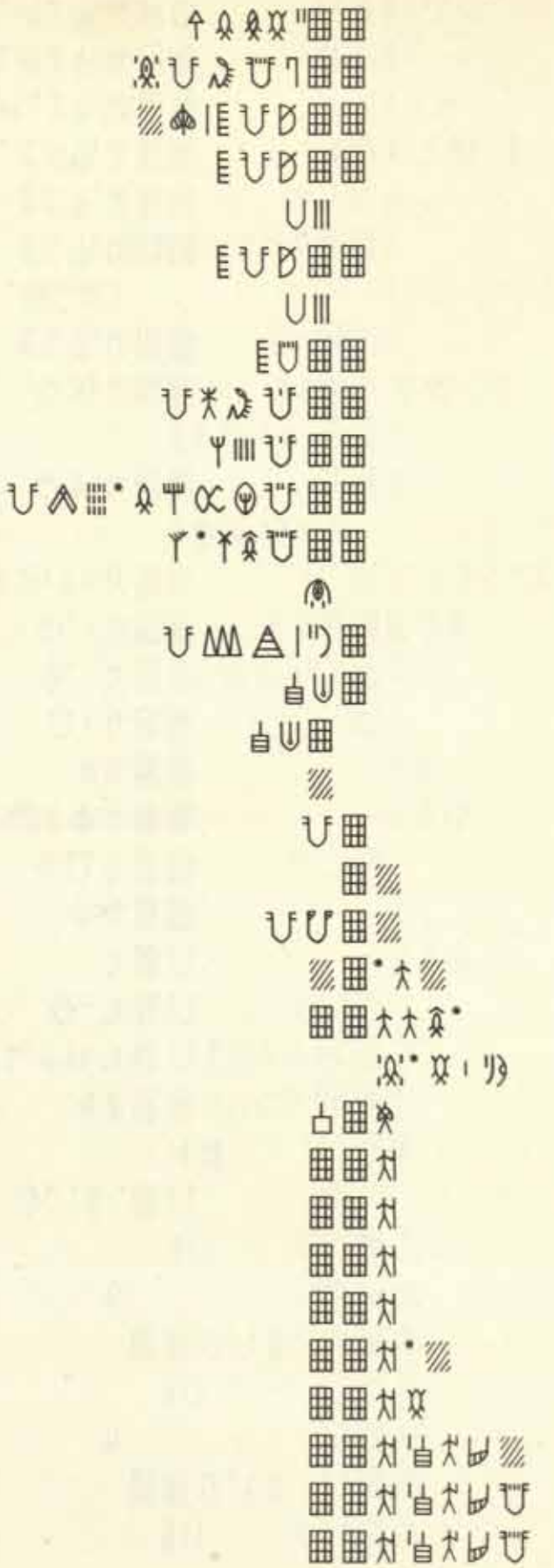

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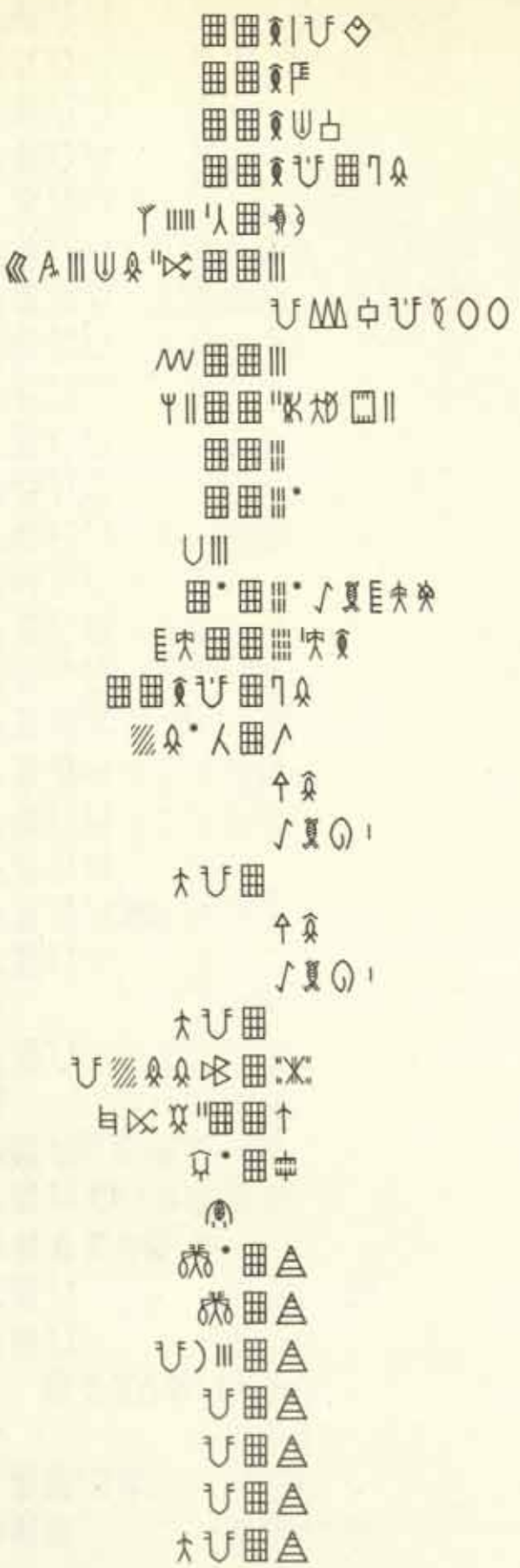

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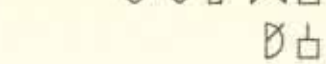
2638	00	
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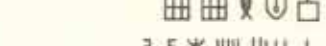
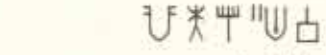
1310	00	
4447	10	
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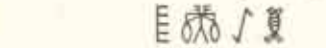
4478	10	
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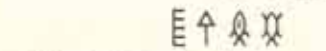
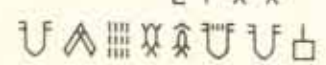
1402	00	
2005	00	
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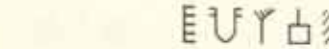
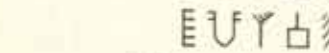
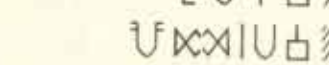
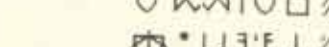
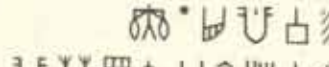
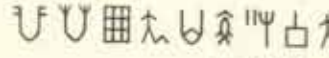
9011	00	
4109	00	
7202	00	
7262	10	
	20	
7262	10	
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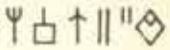
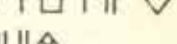
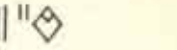
4075	10	
	20	
7049	00	
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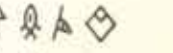
2569	00	
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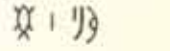
4123	10	
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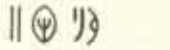
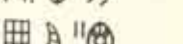
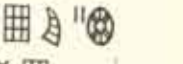
	20	
2312	01	
	02	

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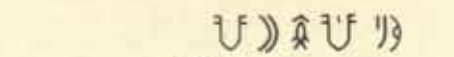
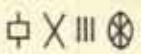
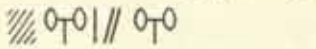
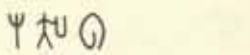
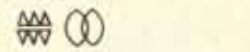
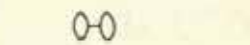
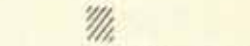
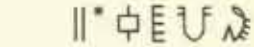
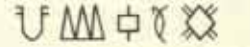
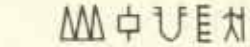
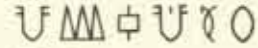
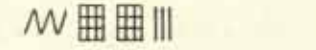
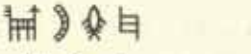
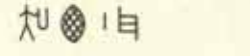
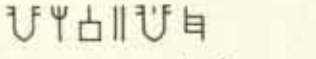
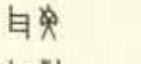
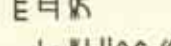
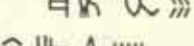
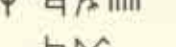
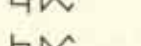
2405 10 
21 
22 
30 
40 
50 
60 
4541 10 
3115 00 
1343 00 
1253 01 
02 

9832 00 
4163 00 
1222 00 
5094 00 
5326 10 
7074 00 
1051 00 
2244 00 
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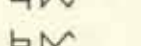
7011 00 
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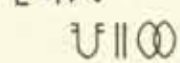
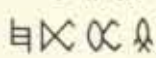
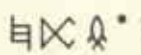
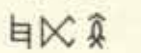
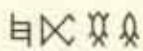
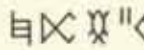
2868 10 
1628 10 
20 
2399 00 
1269 00 
2052 00 
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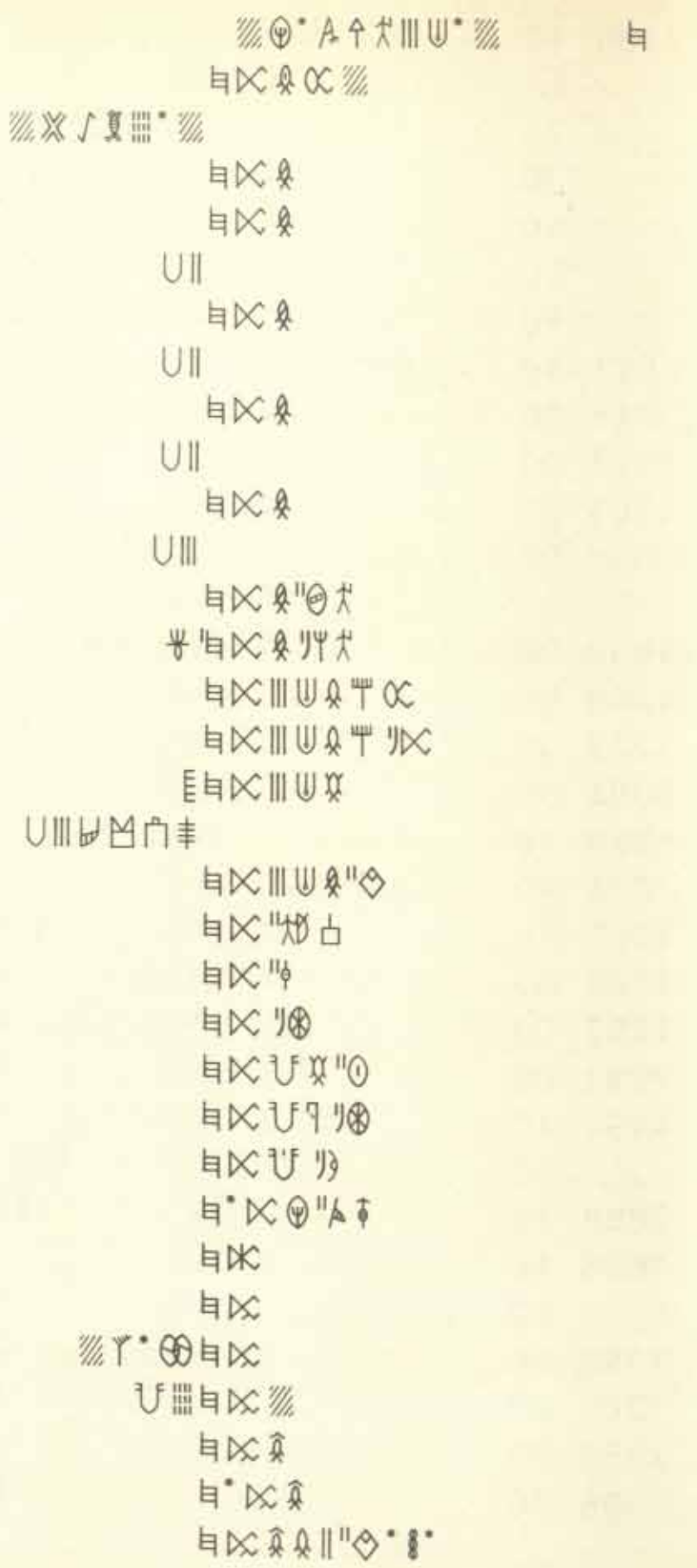

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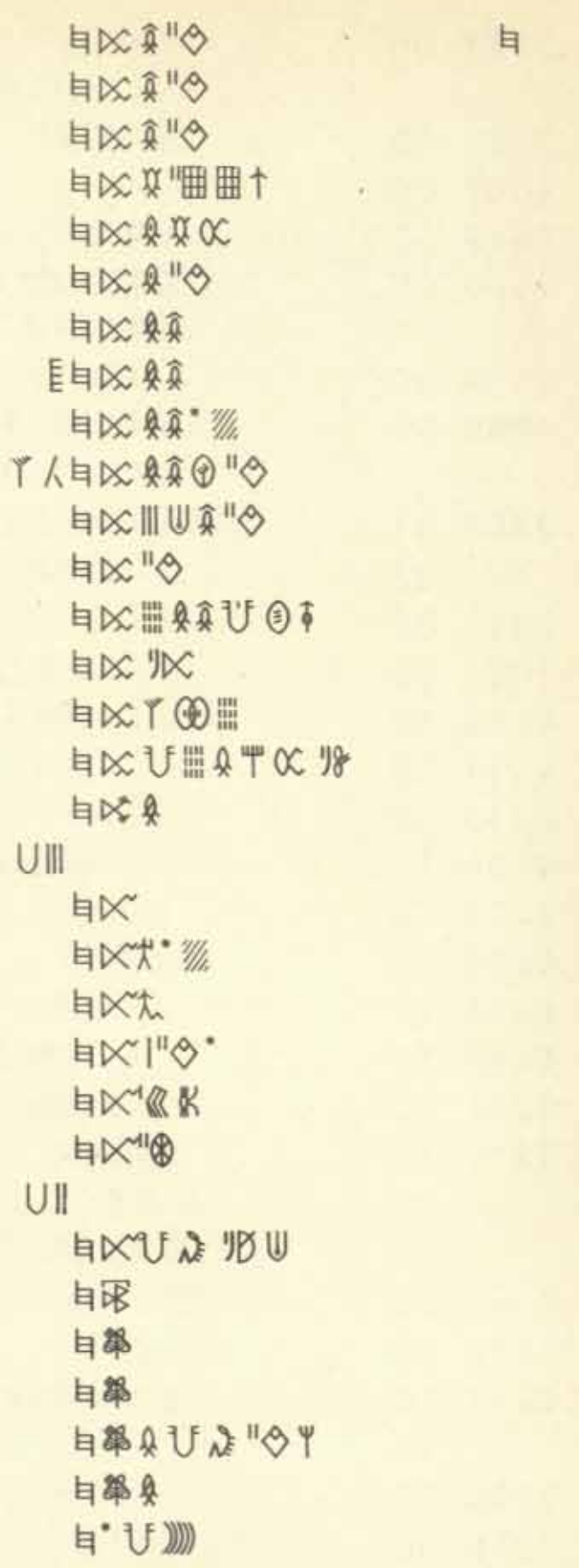

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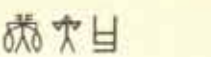

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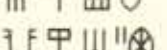

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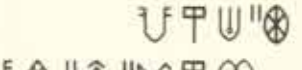

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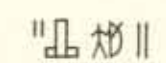

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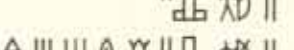

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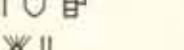

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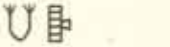

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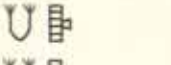

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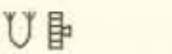

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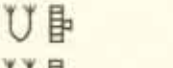

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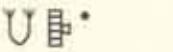

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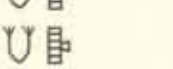

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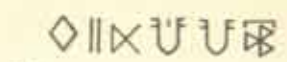
6113 01 
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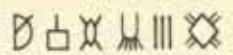
2413 00 
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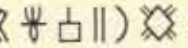
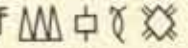
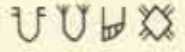
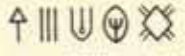
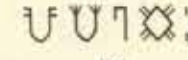
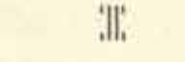
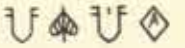
2415 00 
3115 00 
2131 00 
1606 00 
2045 10 
20 

1183 00 

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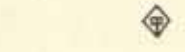
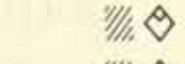
02 

1486 00 
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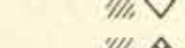
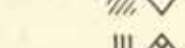
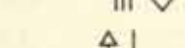
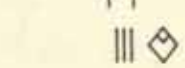
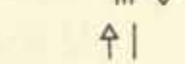
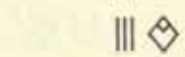
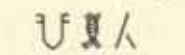
4212 00 
4533 10 
4474 10 
20 
4518 10 
20 
4514 10 
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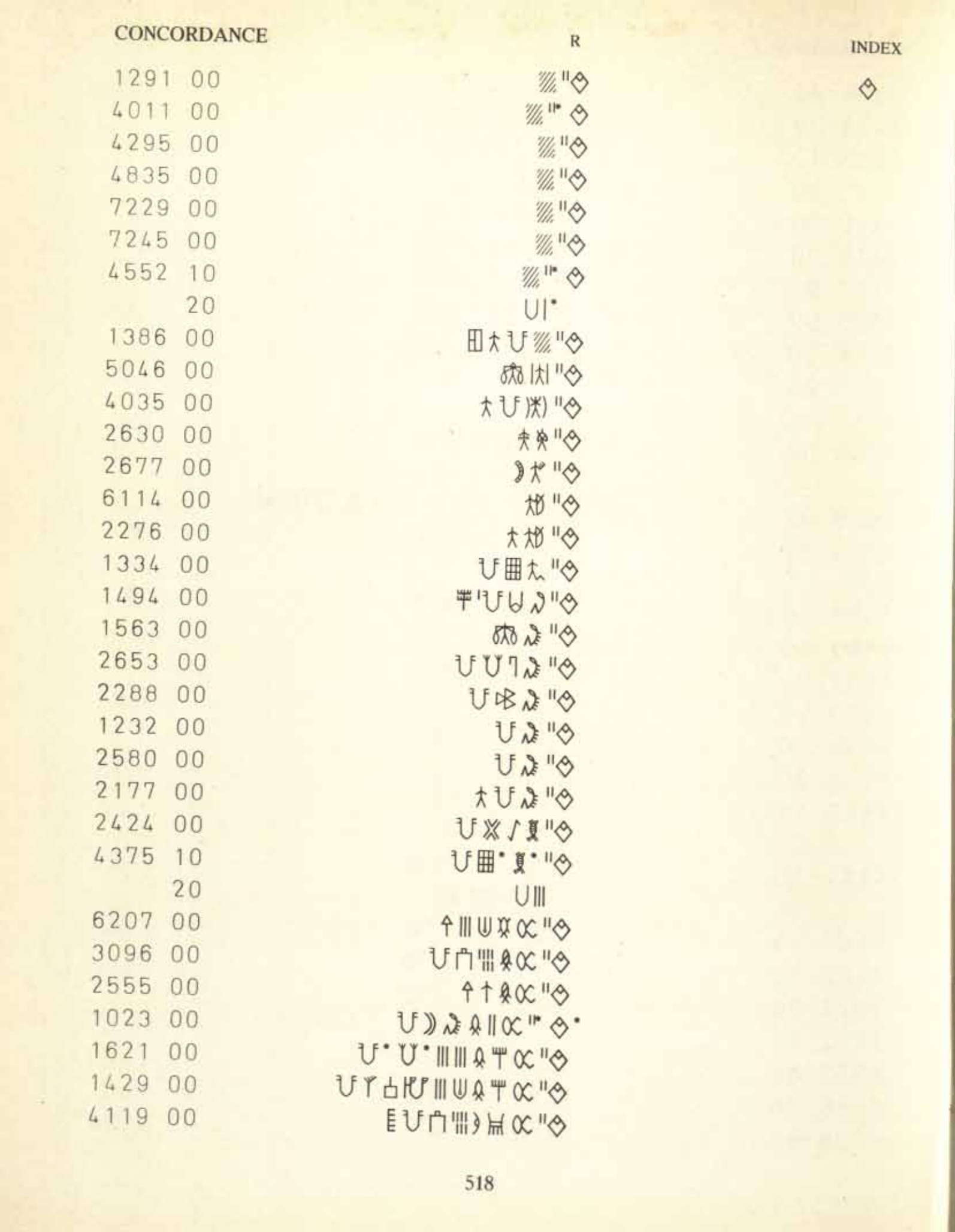

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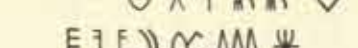
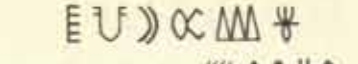
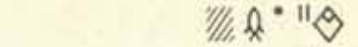
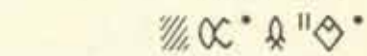
	20	
4053	00	
4812	00	
4232	00	
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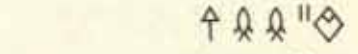
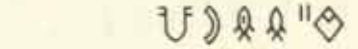
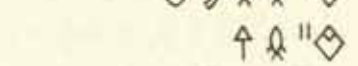
2590	00	
1554	00	
2136	00	
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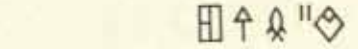
6124	01	
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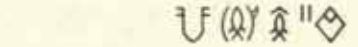
4005	00	
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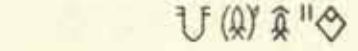
2438	00	
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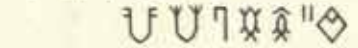
7090	00	
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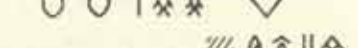
2583	00	
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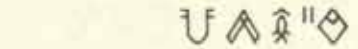
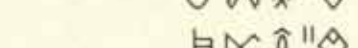
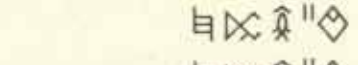
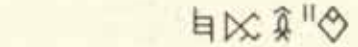
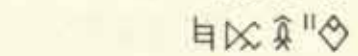
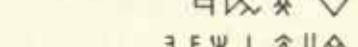
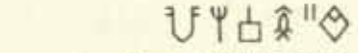
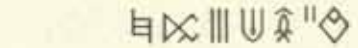
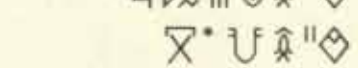
1098	00	
4088	00	
4117	00	
1369	00	
7255	00	
7269	00	
2845	00	
7103	00	
3121	00	

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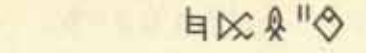
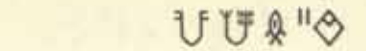
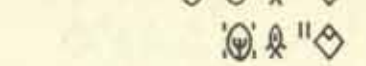
4092 00 

7088 00 

2067 00 

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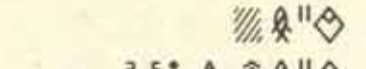
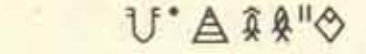
1317 00 

1326 00 

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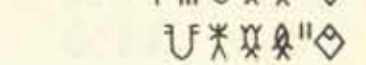
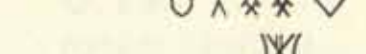
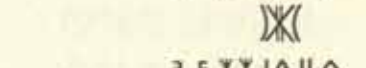
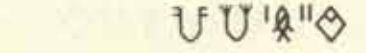
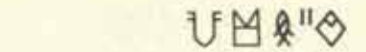
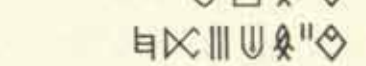
02 

3090 00 

1328 00 

1456 00 

5058 00 

7066 00 

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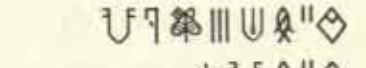
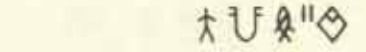
5084 00 

8025 00 

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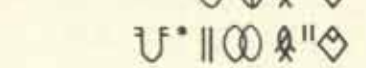
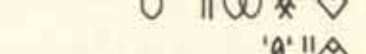
1228 00 

2332 01 

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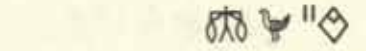
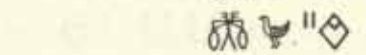
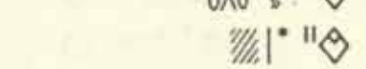
7278 00 

2057 00 

2256 00 

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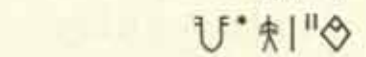
2551 00 

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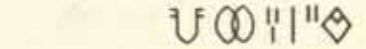
2054 00 

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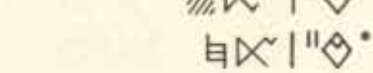
1014 00 

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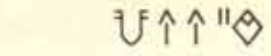
2631	00	
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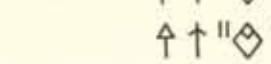
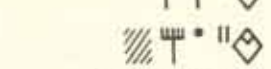
7214	00	
1372	00	
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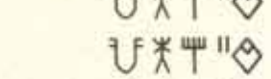
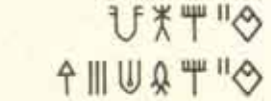
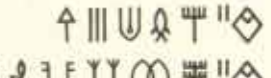
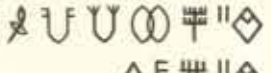
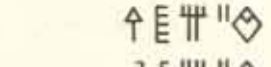
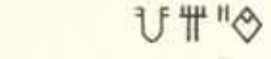
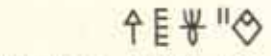
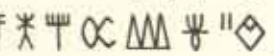
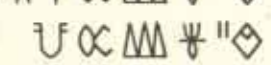
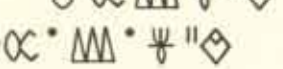
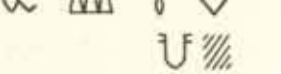
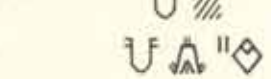
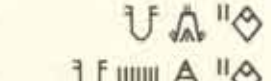
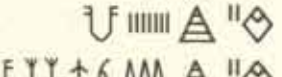
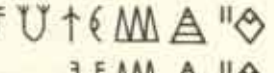
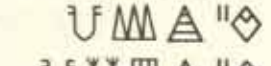
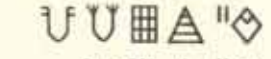
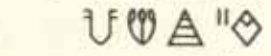
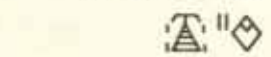
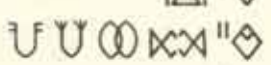
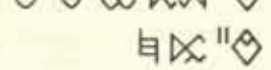
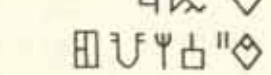
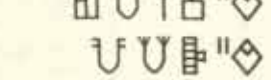
2533	00	
1094	00	
2178	00	
2485	00	
1465	00	
2674	00	
1322	00	
8119	10	
	20	
	30	
5508	00	
1466	00	
2290	00	
2680	00	
5055	00	
1022	00	
1274	00	
2363	00	
2060	00	
2660	00	
2051	00	
4293	00	
2569	00	
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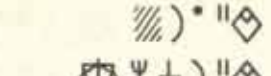
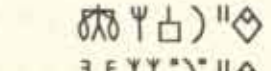
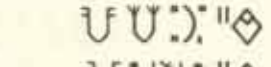
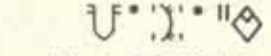
2031	00	
1537	00	
2408	00	
1181	00	

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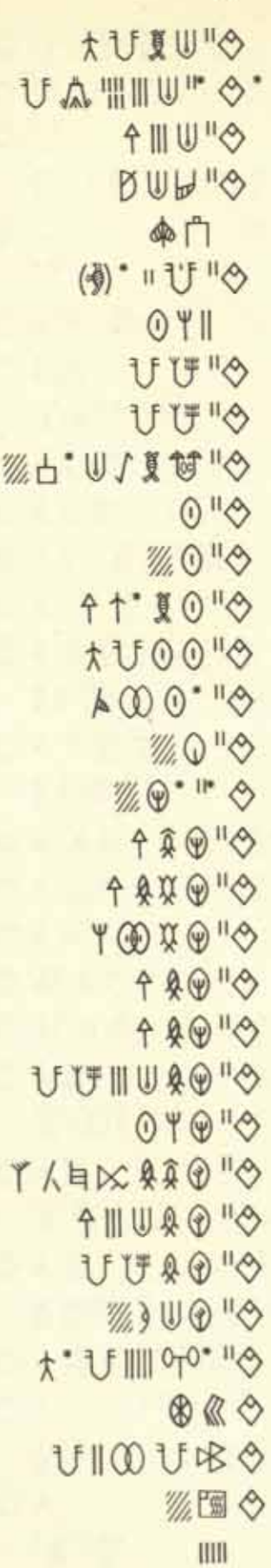

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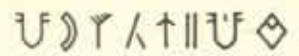
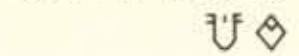
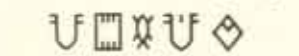
2237	00	
5056	10	
	20	
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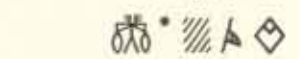
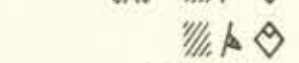
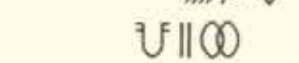
1297	00	
5324	10	
	20	
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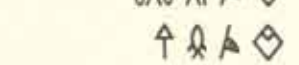
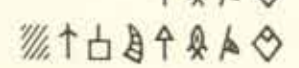
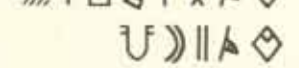
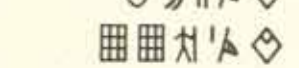
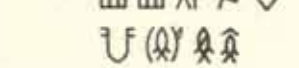
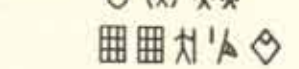
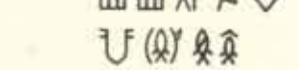
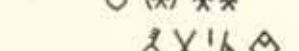
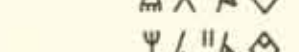
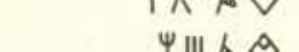
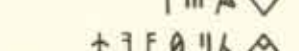
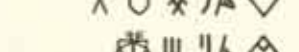
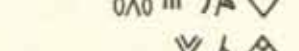
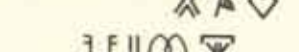
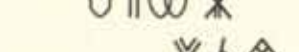
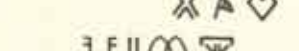
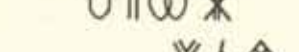
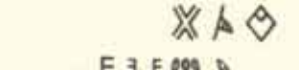
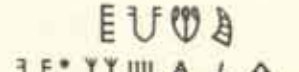
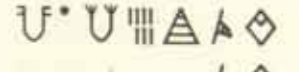
1103	00	
2393	00	
2706	00	
3318	11	
	12	
3415	11	
	12	
1203	00	
7005	00	
4085	00	
2419	00	
2635	00	
4427	10	
	20	
4658	10	
	20	
4454	10	
	20	
2007	00	
4460	10	
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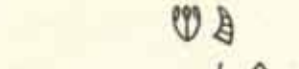
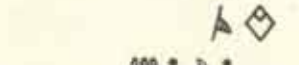
4535	10	
	20	

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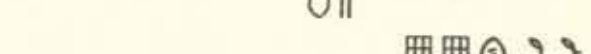
20 
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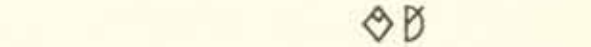
1426 00 
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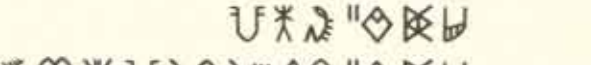
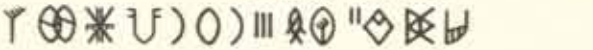
20 
1477 00 
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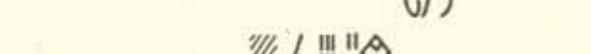
20 
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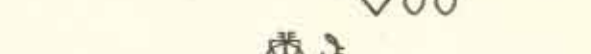
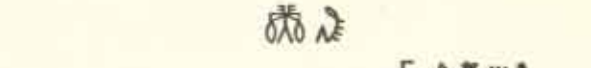
20 
8116 10 
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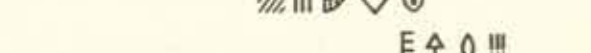
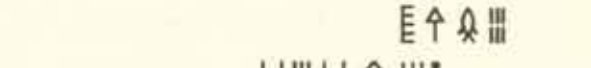
20 
30 
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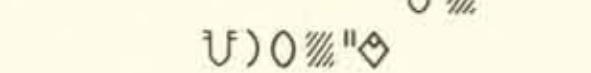
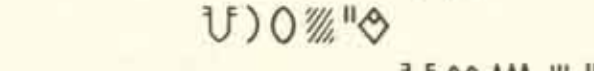
4477 10 
20 
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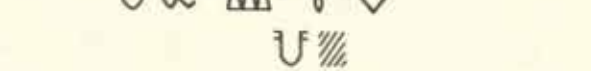
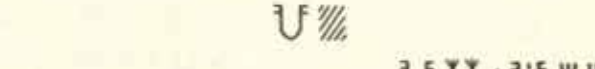
7267 10 
20 

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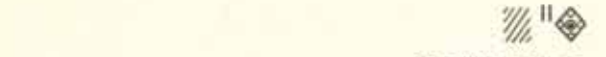
7042 00 
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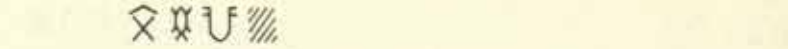
20 
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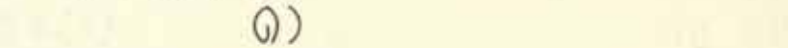
20 
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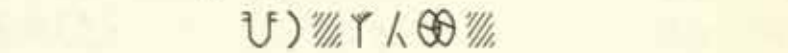
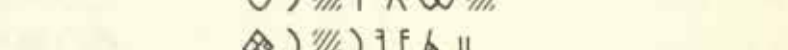
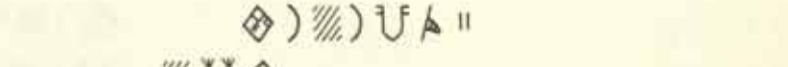
20 
1036 00 
1471 11 
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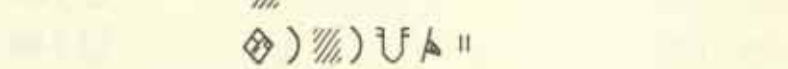
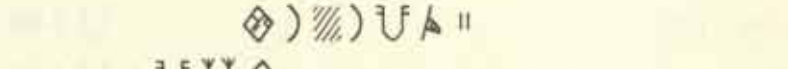
30 
40 
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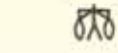
2569	00	
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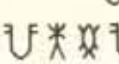
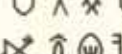
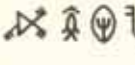
4084	00	
2084	00	
2659	00	
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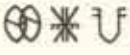
5119	01	
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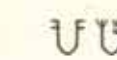
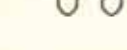
2302	00	
1454	00	
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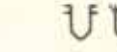
3021	00	
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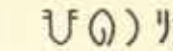
2264 01 
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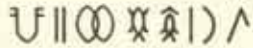
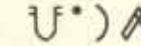
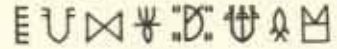
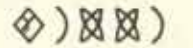
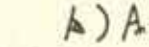
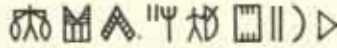
20 

4188 00 

8056 01 

02 

1185 00 

2018 00 

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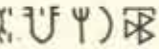
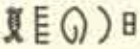
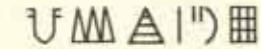
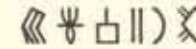
2417 00 

4296 00 

2066 00 

2415 00 

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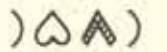
30 

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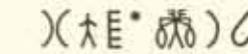
9211 00 

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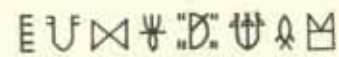
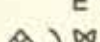
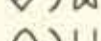
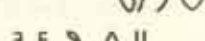
8056 01 

02 

2905 10 

20 

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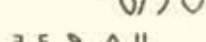
20 

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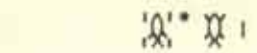
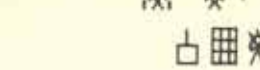
6220	01	
	02	
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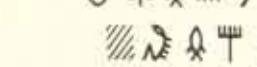
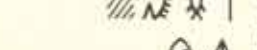
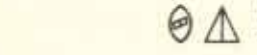
3098	00	
2314	00	
4404	10	
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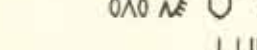
	20	
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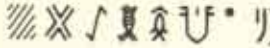
	02	
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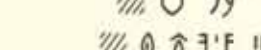
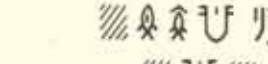
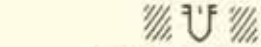
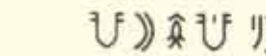
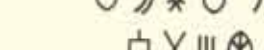
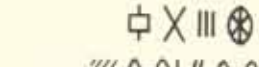
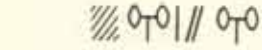
	21	
	22	
	30	
	40	
	50	
	60	
2402	00	
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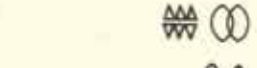
8026	00	
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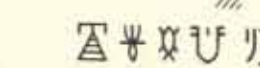
5310	10	
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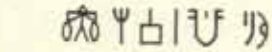
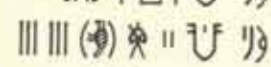
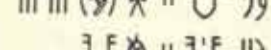
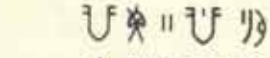
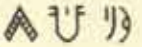
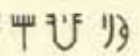
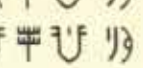
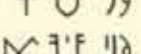
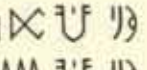
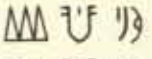
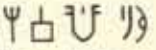
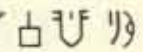
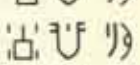
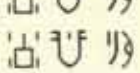
4319	10	
2298	00	
1442	00	
1212	00	

1140 00 
1630 00 
1234 00 
2010 00 
1160 00 
2609 00 
7045 00 
2501 00 
2613 00 
2070 00 
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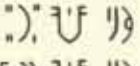
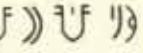
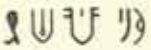
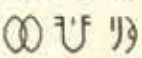
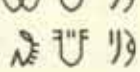
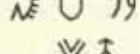
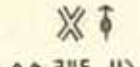
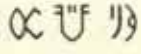
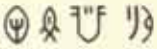
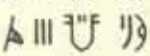
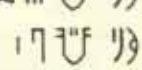
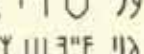
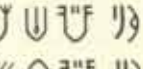
2442 00 
2115 00 
3108 01 
02 
2041 00 
2337 00 
1029 00 
2071 00 
1145 00 
1462 00 
2537 00 
1021 00 
4104 00 
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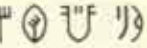
20 
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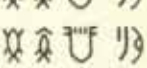
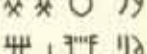
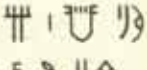
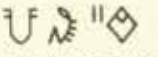
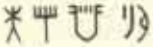
7013 00 
5067 00 
2016 00 
4020 00 
1302 01 
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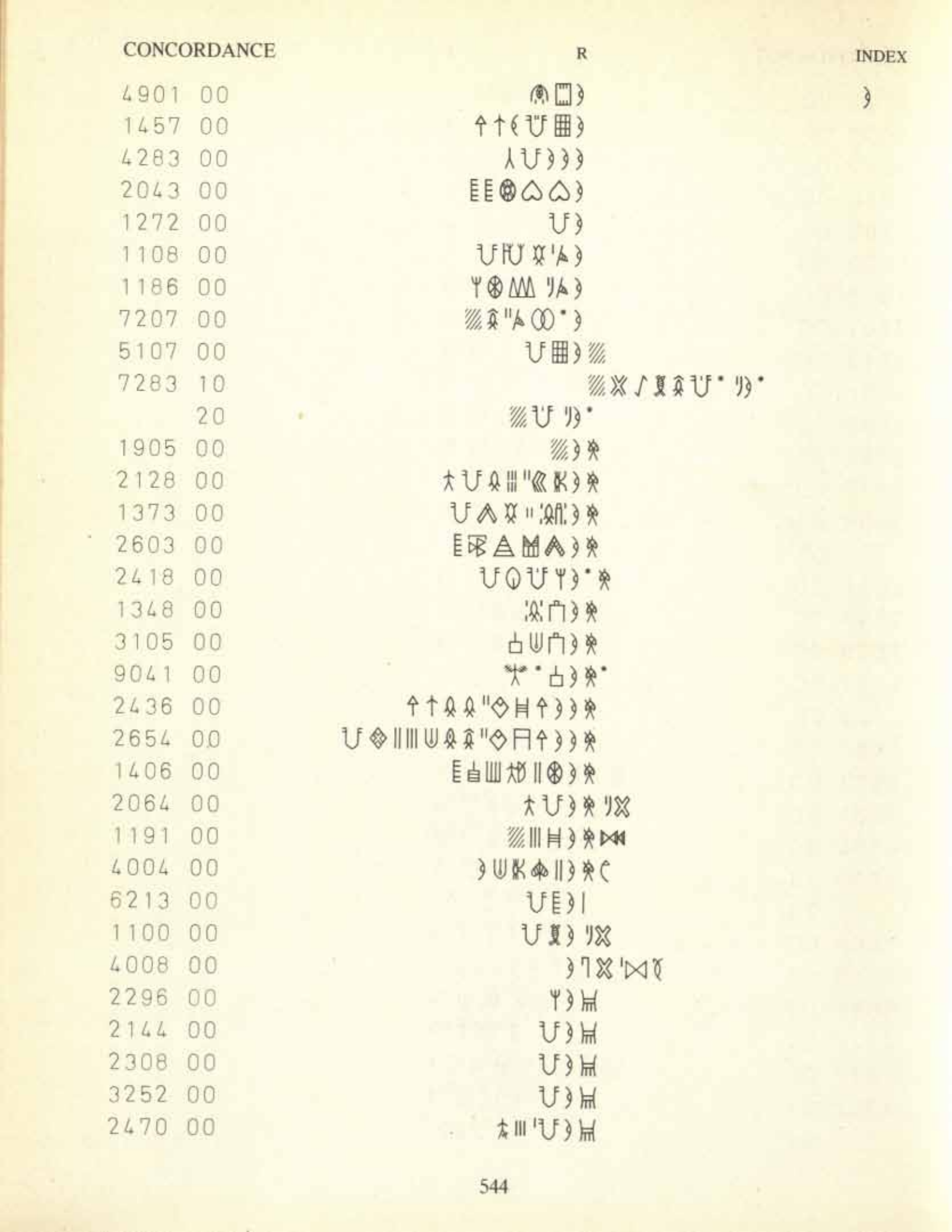

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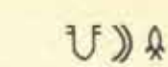
1323 00 
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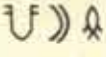
7048 10 
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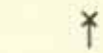
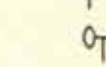
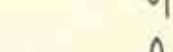
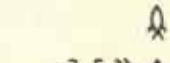
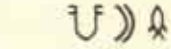
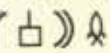
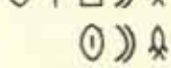
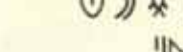
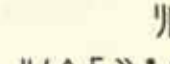
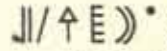
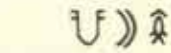
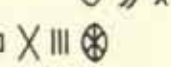
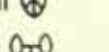
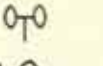
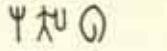
30 
40 
50 
7013 00 
4027 00 
6108 01 
02 
2405 10 
21 
22 
30 
40 
50 
60 
4670 10 
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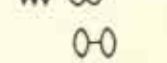
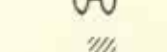
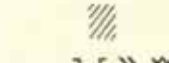
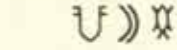
7056 00 
1263 00 
4314 10 
20 
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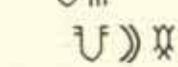
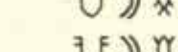
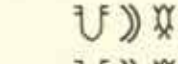
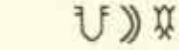
20 
2222 00 
1540 00 
4440 10 
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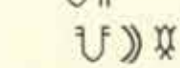
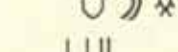
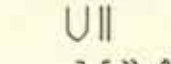
4108 00 
2122 00 
2117 00 

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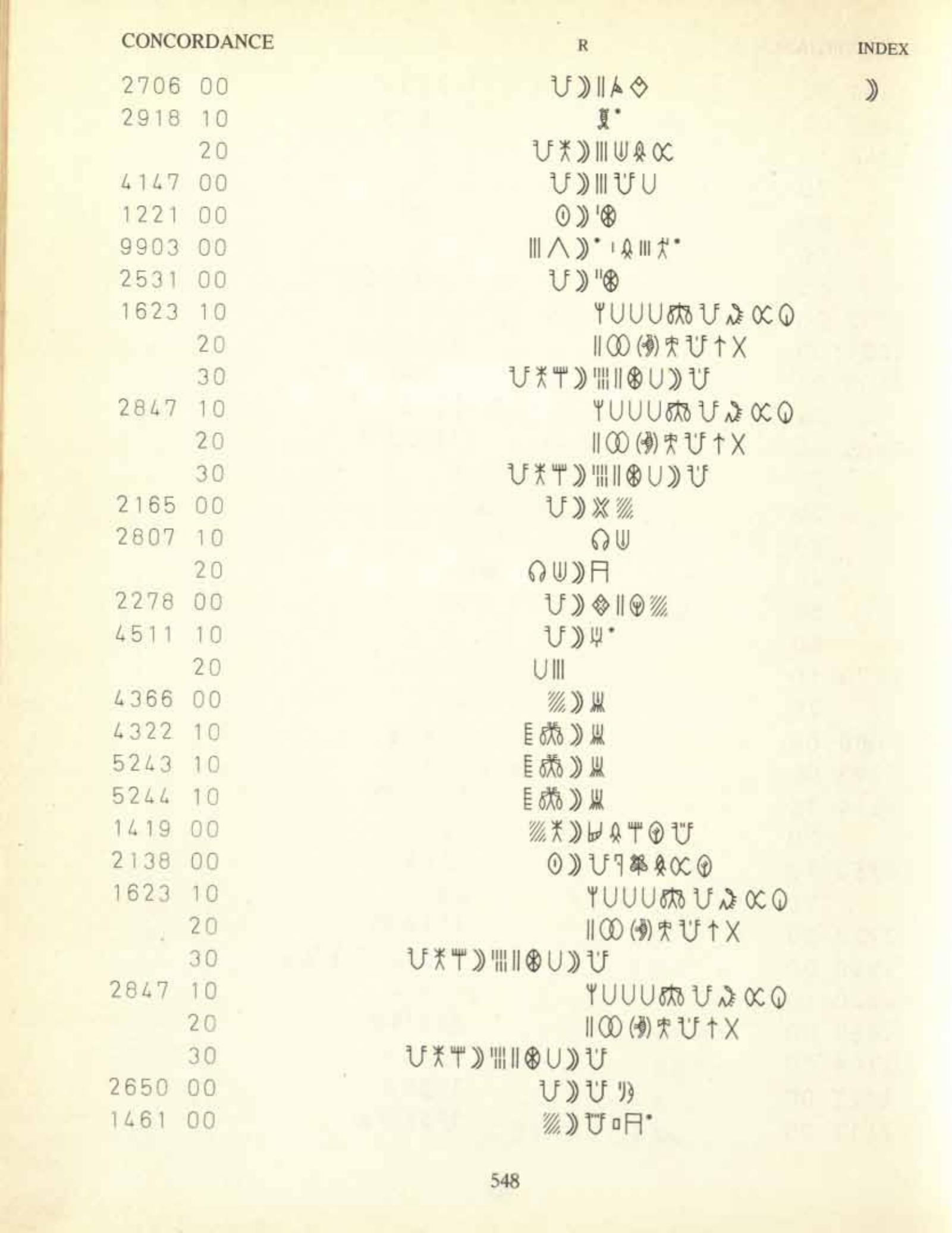

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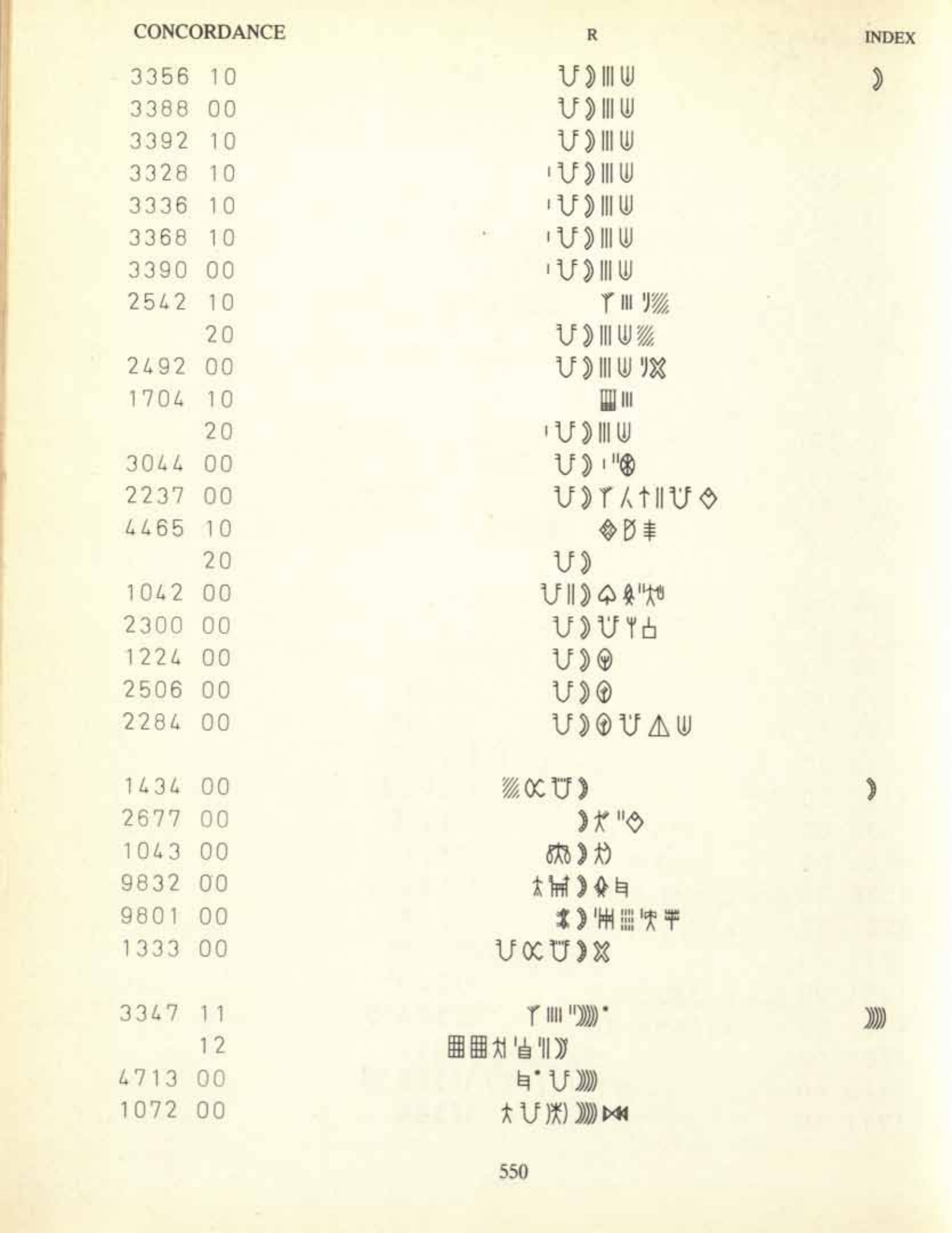

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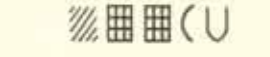

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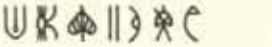

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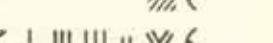

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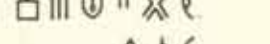

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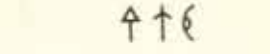

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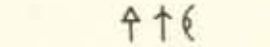

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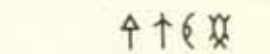

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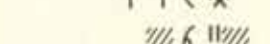

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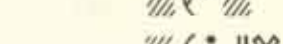

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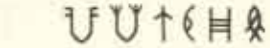

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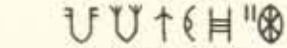

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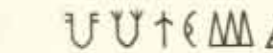

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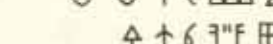

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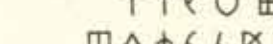

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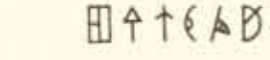

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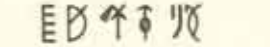

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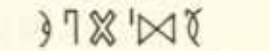

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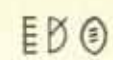
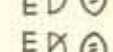
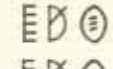
4421 00 
4422 00 
4423 00 
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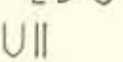
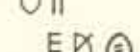
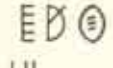
4682 10 
20 
5285 10 
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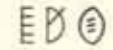
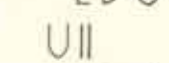
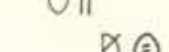
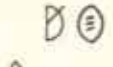
4488 10 
20 
1077 00 
2940 00 
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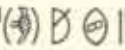
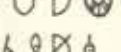
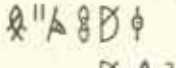
2178 00 

8056 01 
02 

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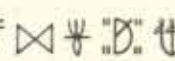
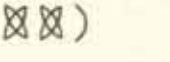
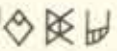
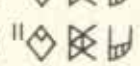
3107 00 

2390 00 

4680 10 
20 
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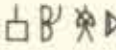
1046 00 

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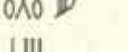
2923 10 
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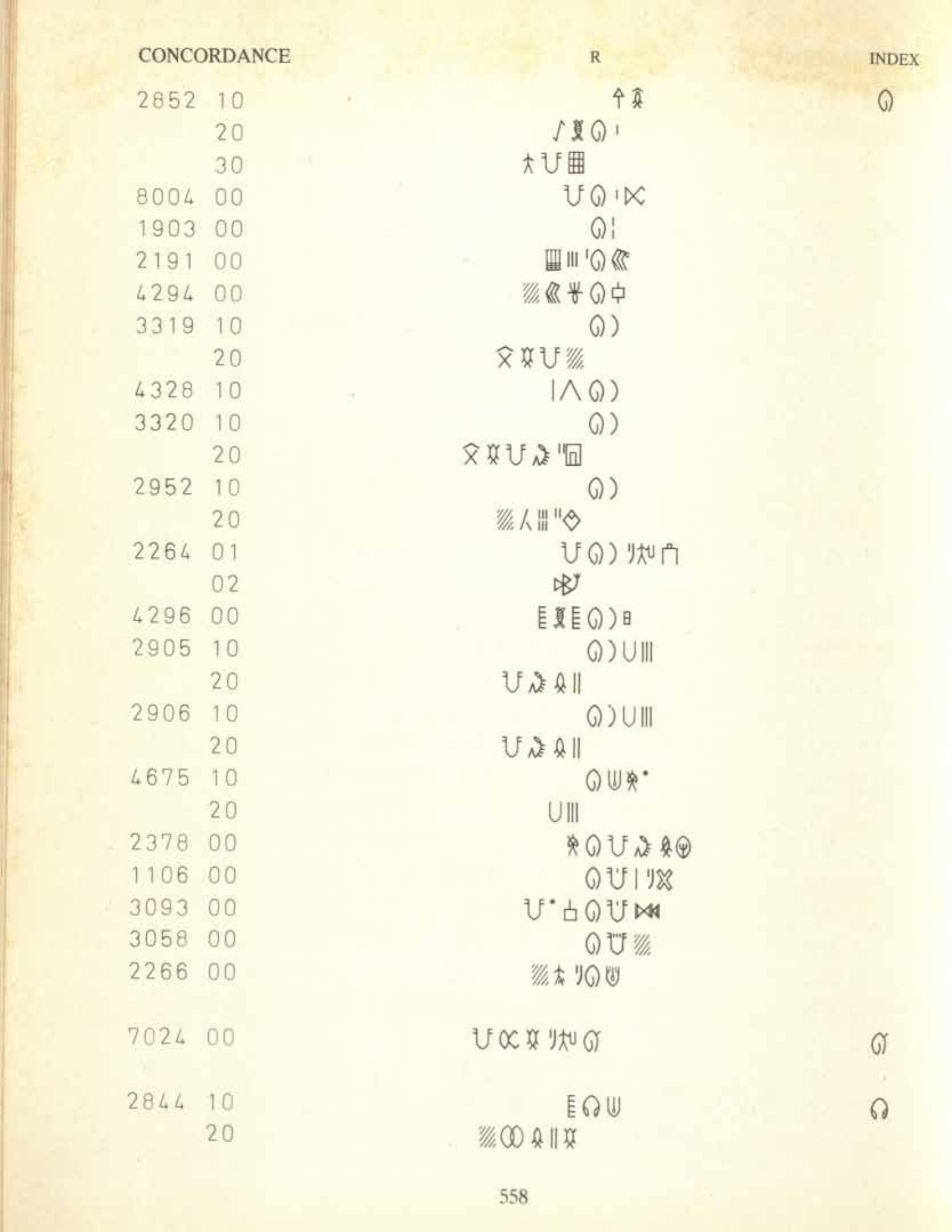

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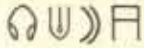
20 
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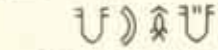
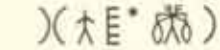
4055 00 
1537 00 

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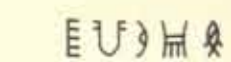
4661	10	
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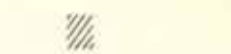
4459	10	
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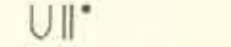
	20	
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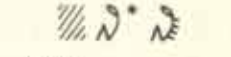
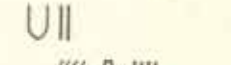
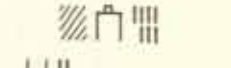
4381	10	
	20	
4700	10	
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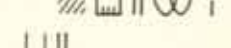
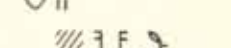
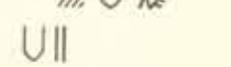
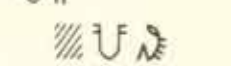
4420	10	
	20	
5415	10	
	20	
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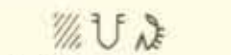
	20	
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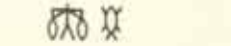
	20	
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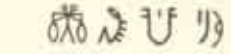
	20	
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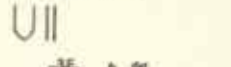
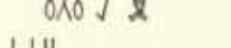
5472	10	
	20	
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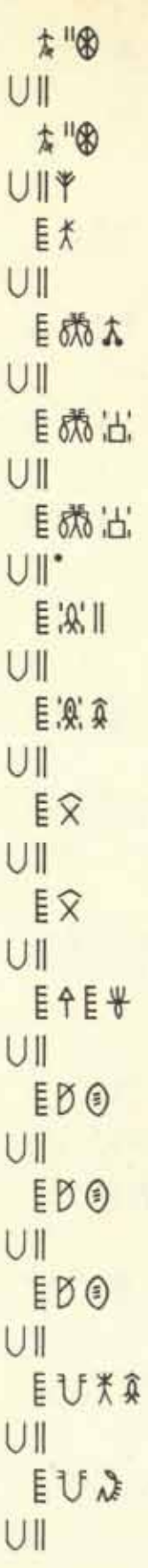

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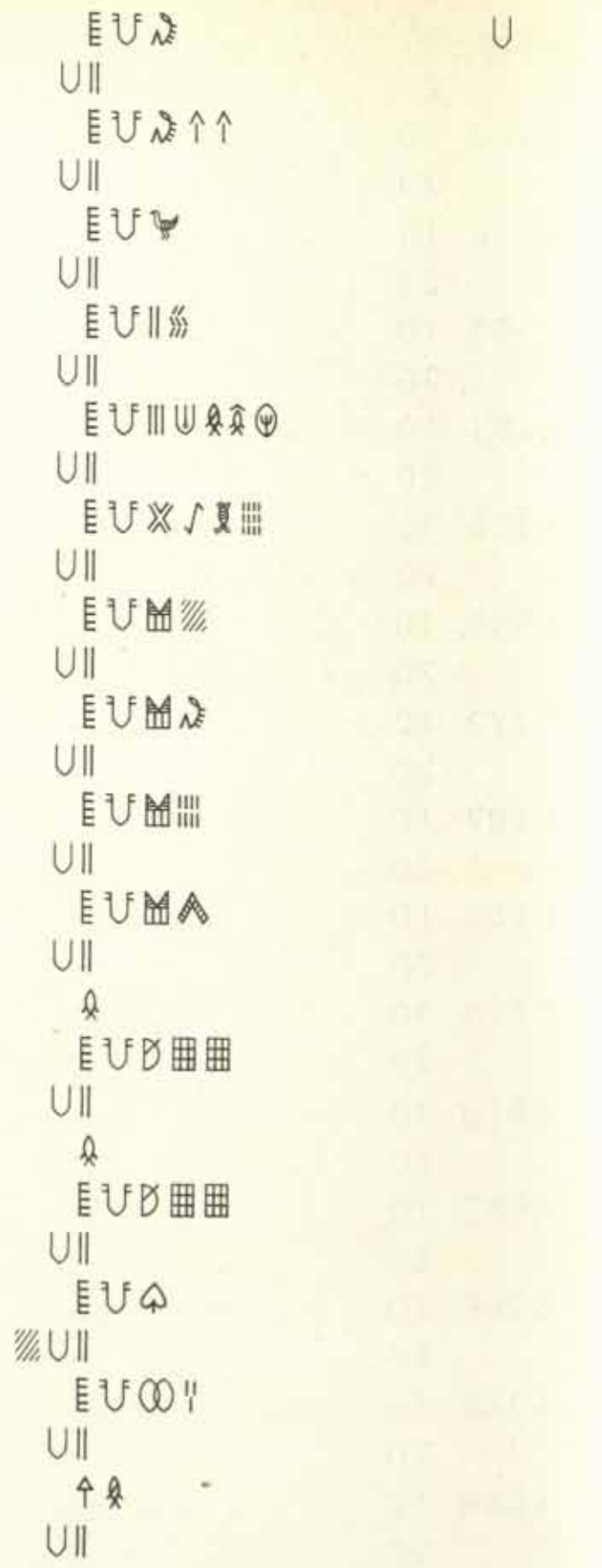

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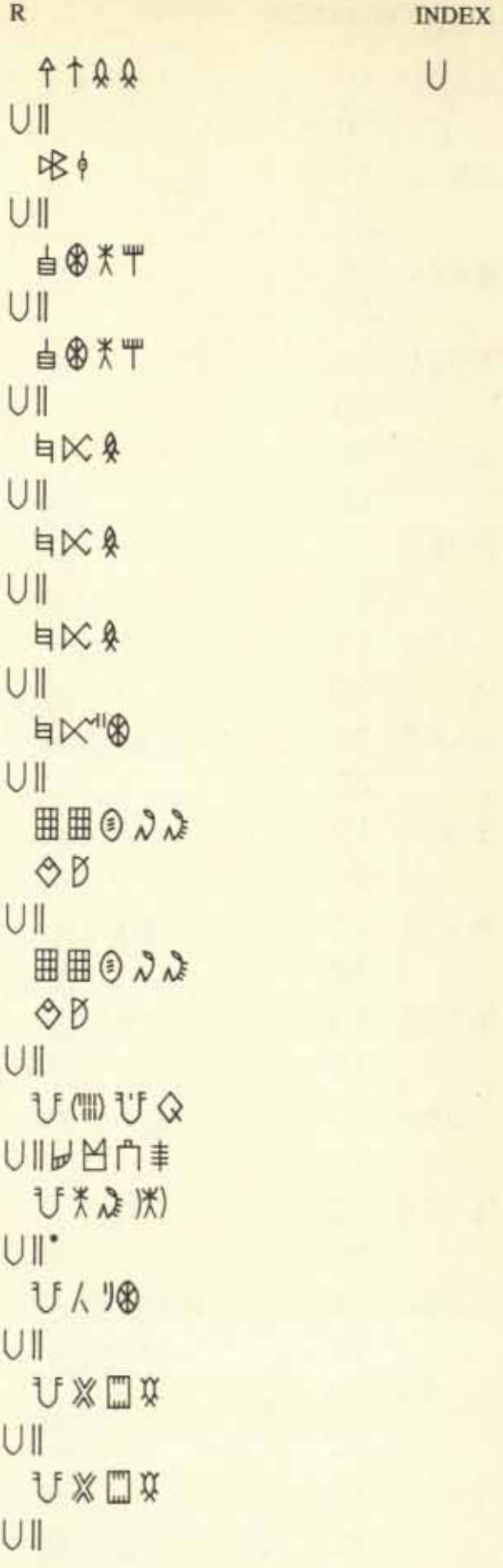

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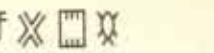
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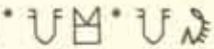
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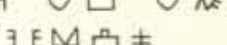
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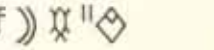
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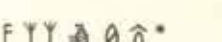
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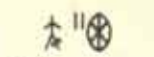
4601	10	
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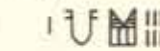
4376	10	
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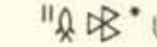
4463	10	
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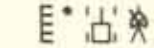
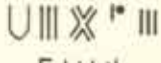
1527	11	
	12	
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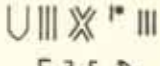
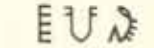
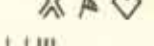
	12	
4586	10	
	20	
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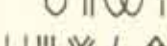
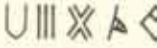
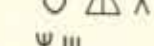
4477	10	
	20	
4386	11	
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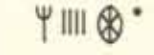
5322	10	
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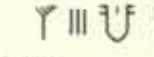
5310	10	
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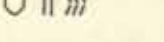
4605	10	
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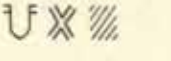
4602	10	
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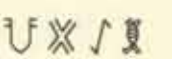
4646	10	
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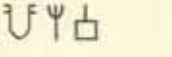
4523	10	
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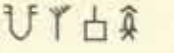
4492	10	
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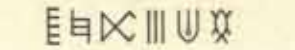
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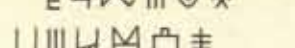
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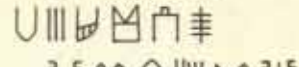
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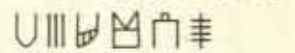
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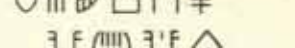
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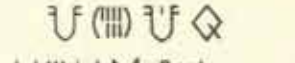
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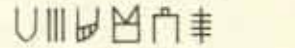
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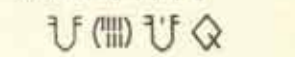
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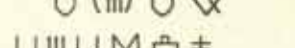
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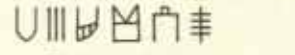
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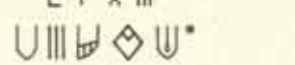
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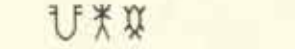
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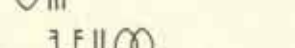
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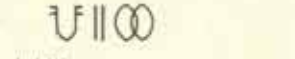
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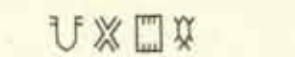
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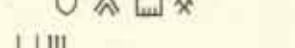
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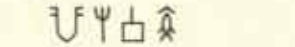
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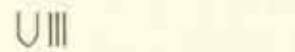
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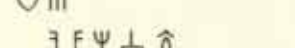
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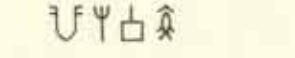
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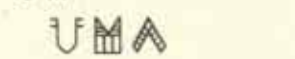
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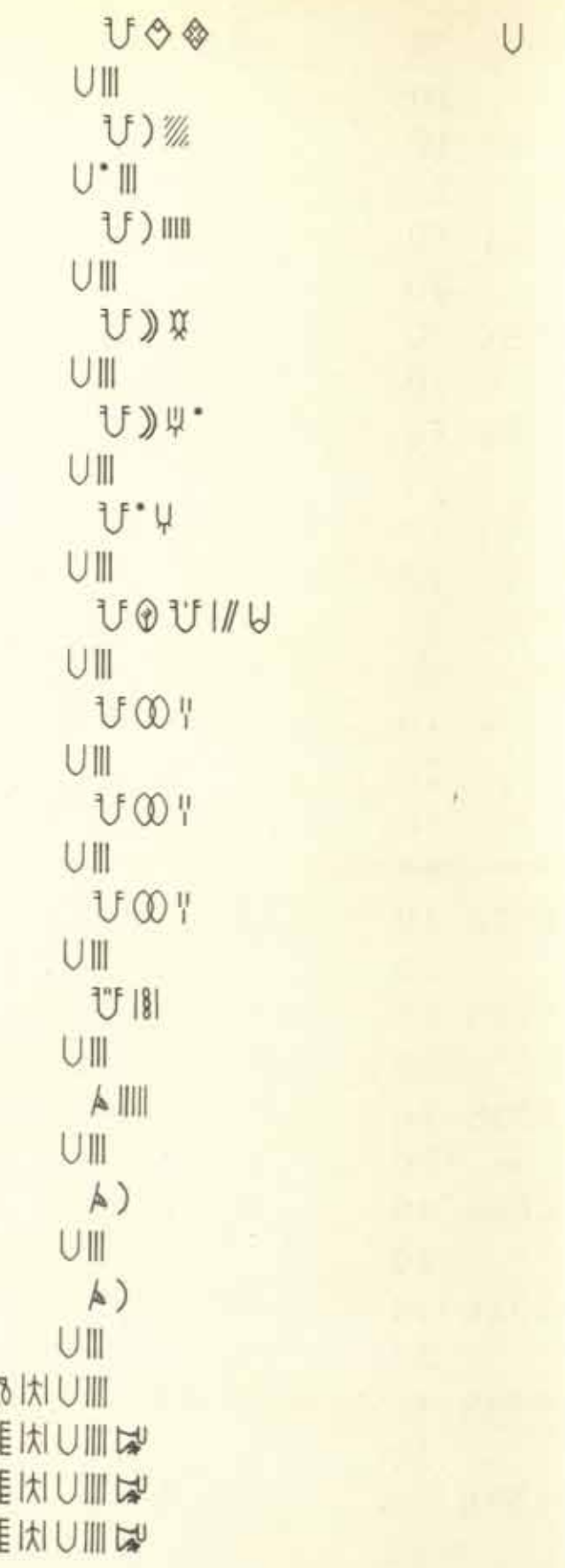
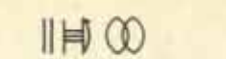
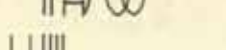


4678	10	
	20	
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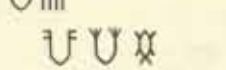
	20	
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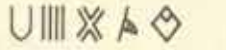
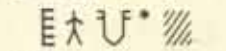
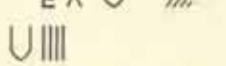
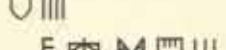
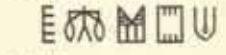
	20	
5497	10	
	20	
4577	10	
	20	
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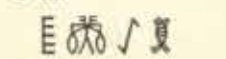
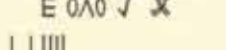
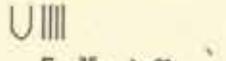
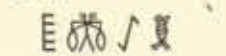
	20	
4484	10	
	20	
5271	10	
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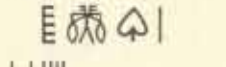
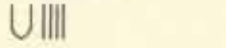
	20	
4501	10	
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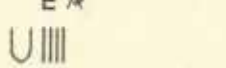
4503	10	
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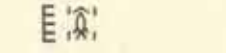
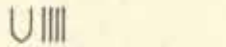
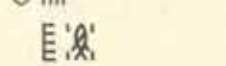
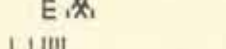
5406	10	
	20	
5292	10	
	20	
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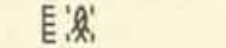
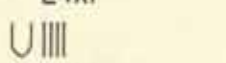
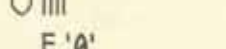
	20	
4508	10	
	20	

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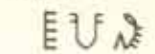
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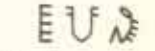
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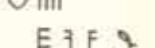
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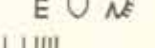
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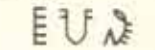
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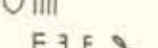
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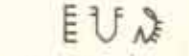
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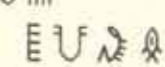
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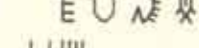
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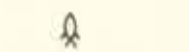
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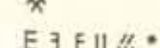
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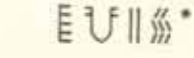
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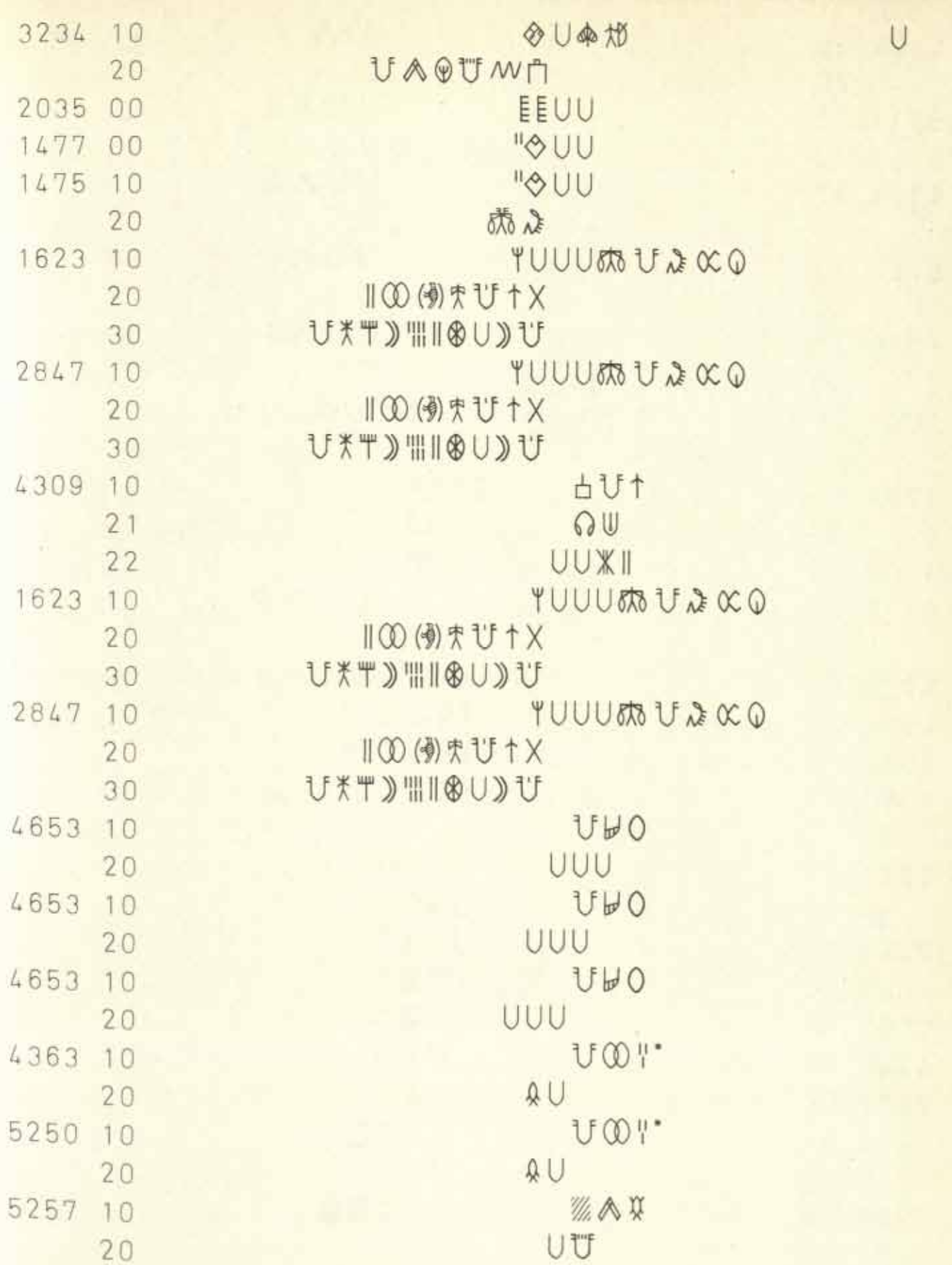
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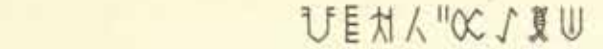
2107	00	
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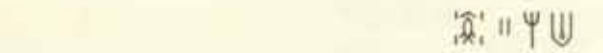
	20	

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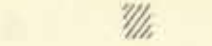
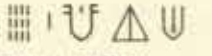
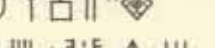
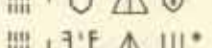
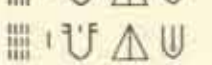
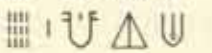
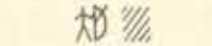
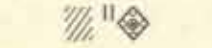
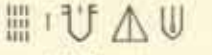
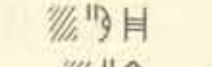
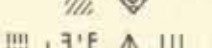
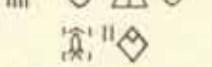
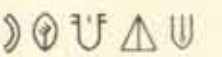
30 
7215 10 
20 
7241 00 
7224 00 
7265 00 
7253 10 
20 
30 
7236 10 
20 
30 
7249 10 
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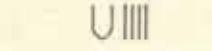
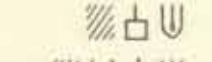
2628 00 
5497 10 
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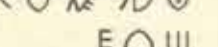
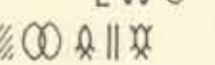
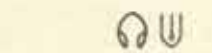
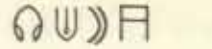
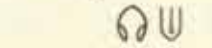
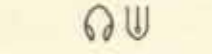
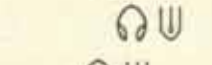
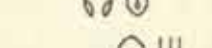
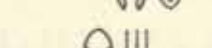
3237 00 
2331 00 
9111 00 
2844 10 
20 
2807 10 
20 
1603 10 
20 
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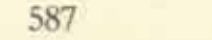
20 
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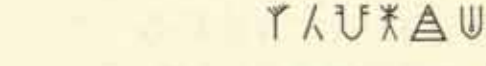
4698 00 
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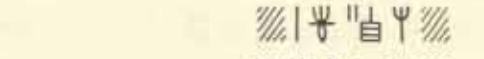
20 
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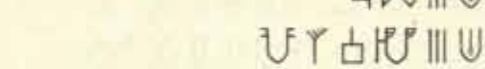
1068 00 
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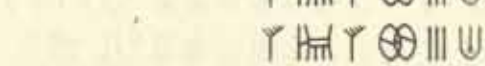
3156 00 
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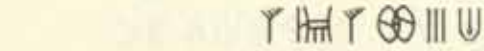
3304 10 
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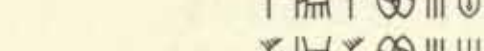
3337 00 
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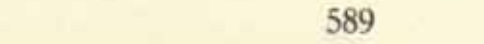
3381 10 
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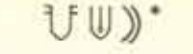
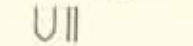
	20	
2807	10	
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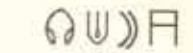
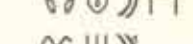
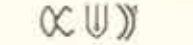
	02	
2471	01	
	02	
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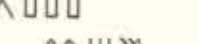
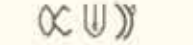
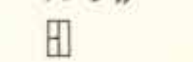
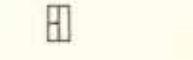
	20	
2836	10	
	20	
2849	10	
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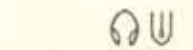
7258	10	
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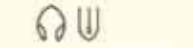
2442	00	
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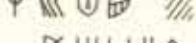
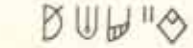
2621	00	
1145	00	
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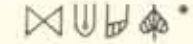
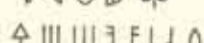
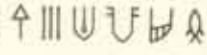
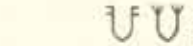
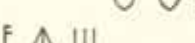
4020	00	
3110	00	
1606	00	
2589	00	
2006	00	
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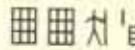
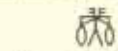
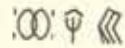
3413	10	
2020	00	
1397	00	
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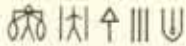
4254	00	
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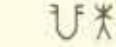
8105	00	
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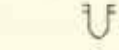
6132	00	
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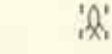
2432	00	
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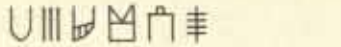
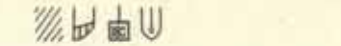
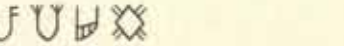
20 
2331 00 
2131 00 
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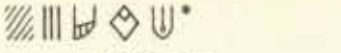
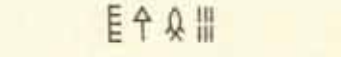
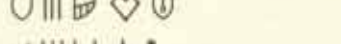
20 
4356 10 
20 
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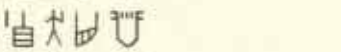
2916 10 
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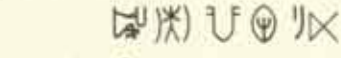
20 
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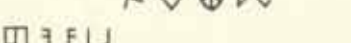
1549 00 
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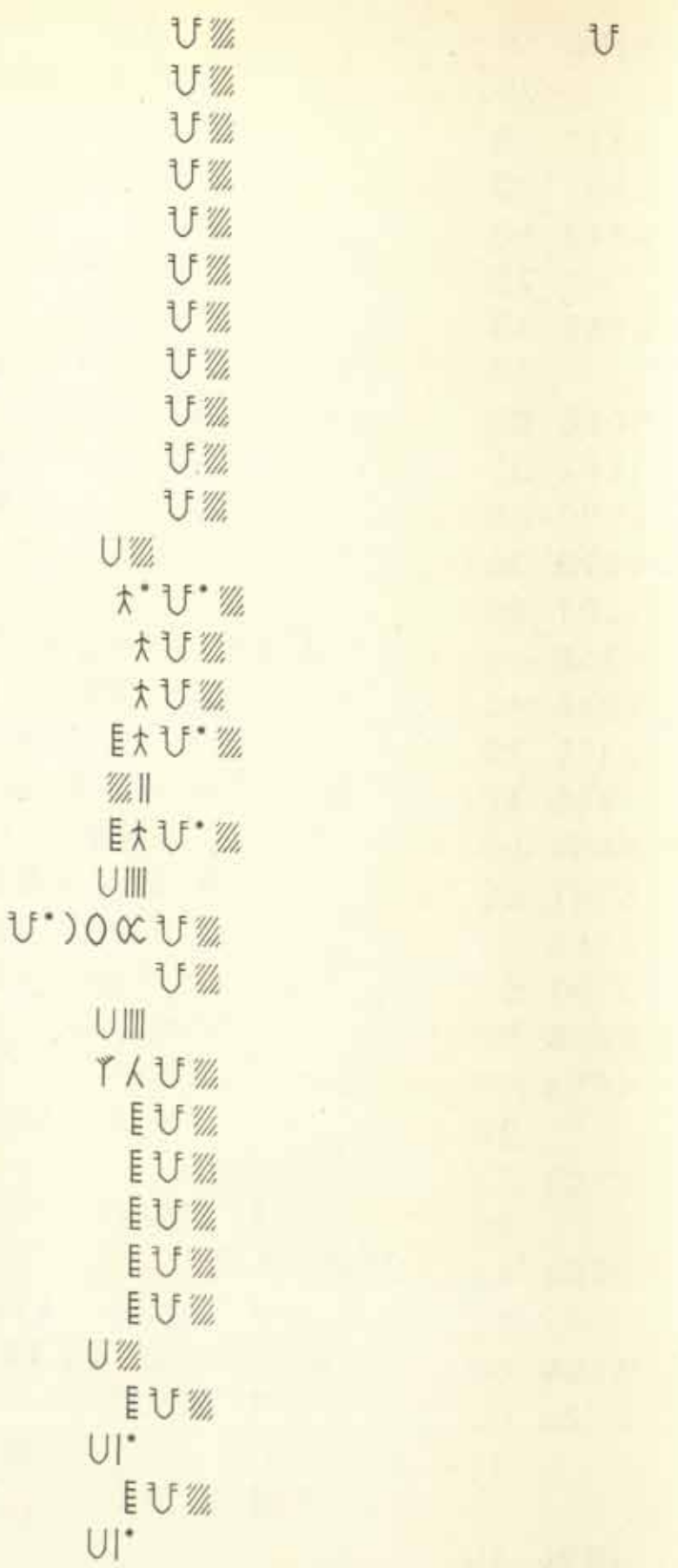
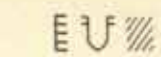


5438 10 
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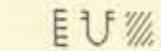
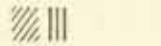
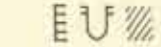
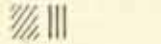
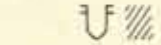
5446 10 
20 
5451 10 
20 
8116 10 
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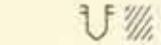
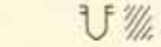
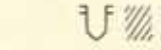
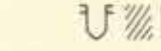
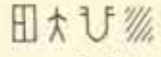
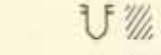
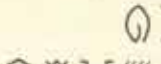
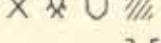
3325 00 
3119 00 
4167 00 
3349 10 
1386 00 
3340 10 
3319 10 
20 
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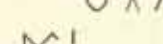
4224 01 
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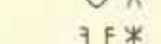
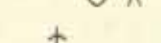
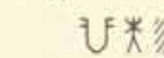
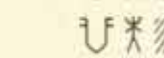
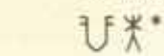
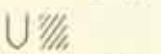
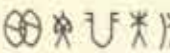
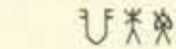
4632 00 
6122 01 
02 
2467 00 
3037 00 
4546 10 
20 
6125 00 
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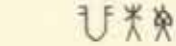
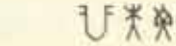
1339 00 
4033 00 
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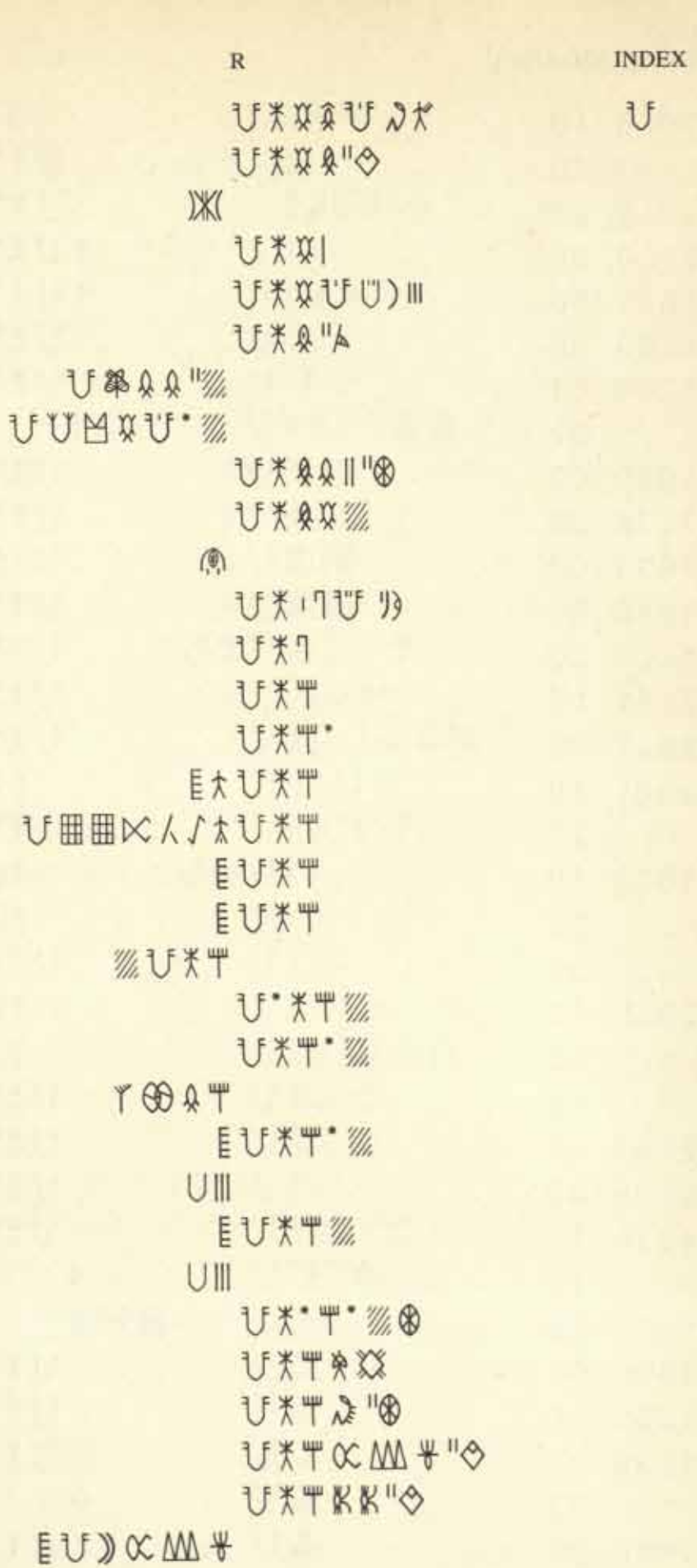

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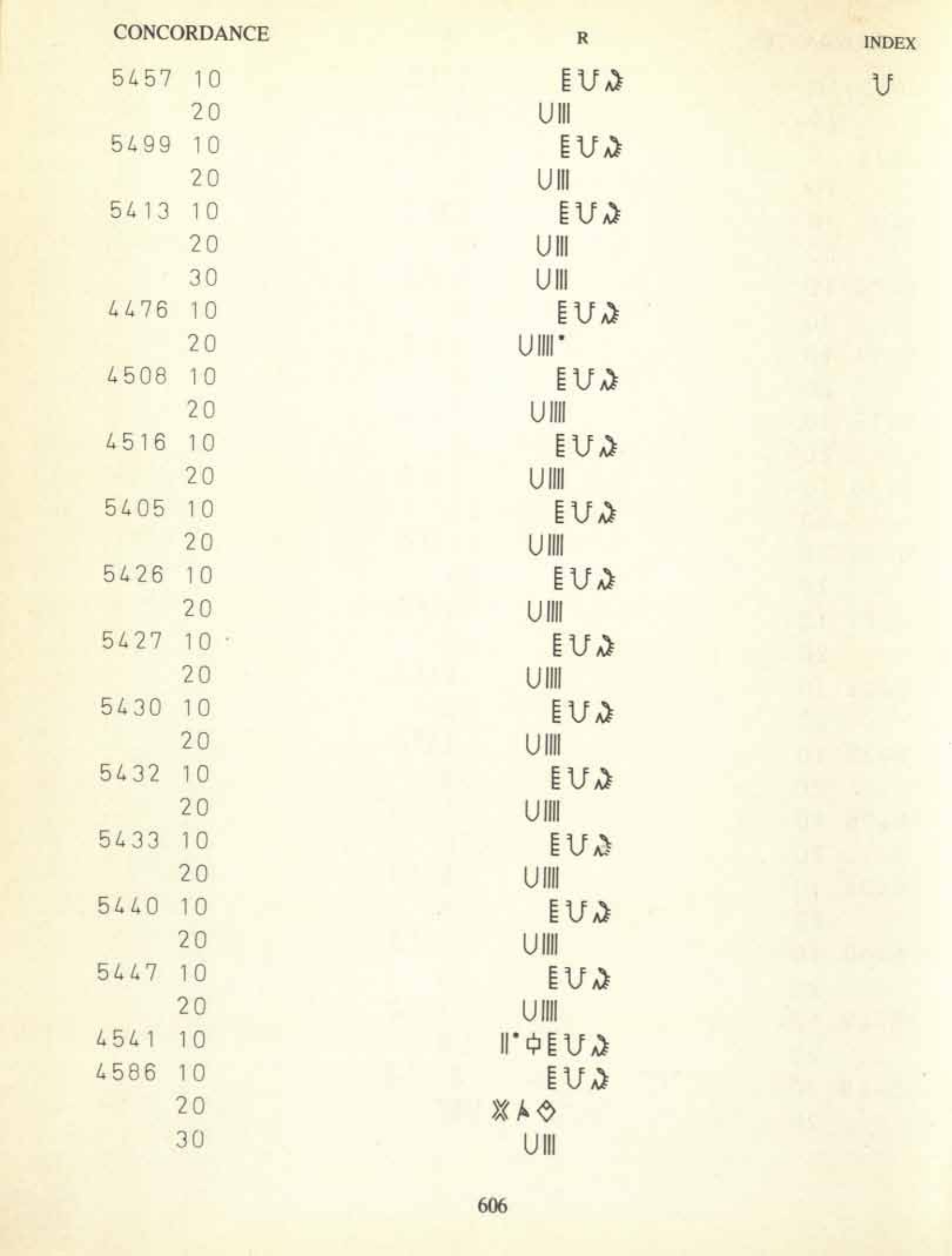

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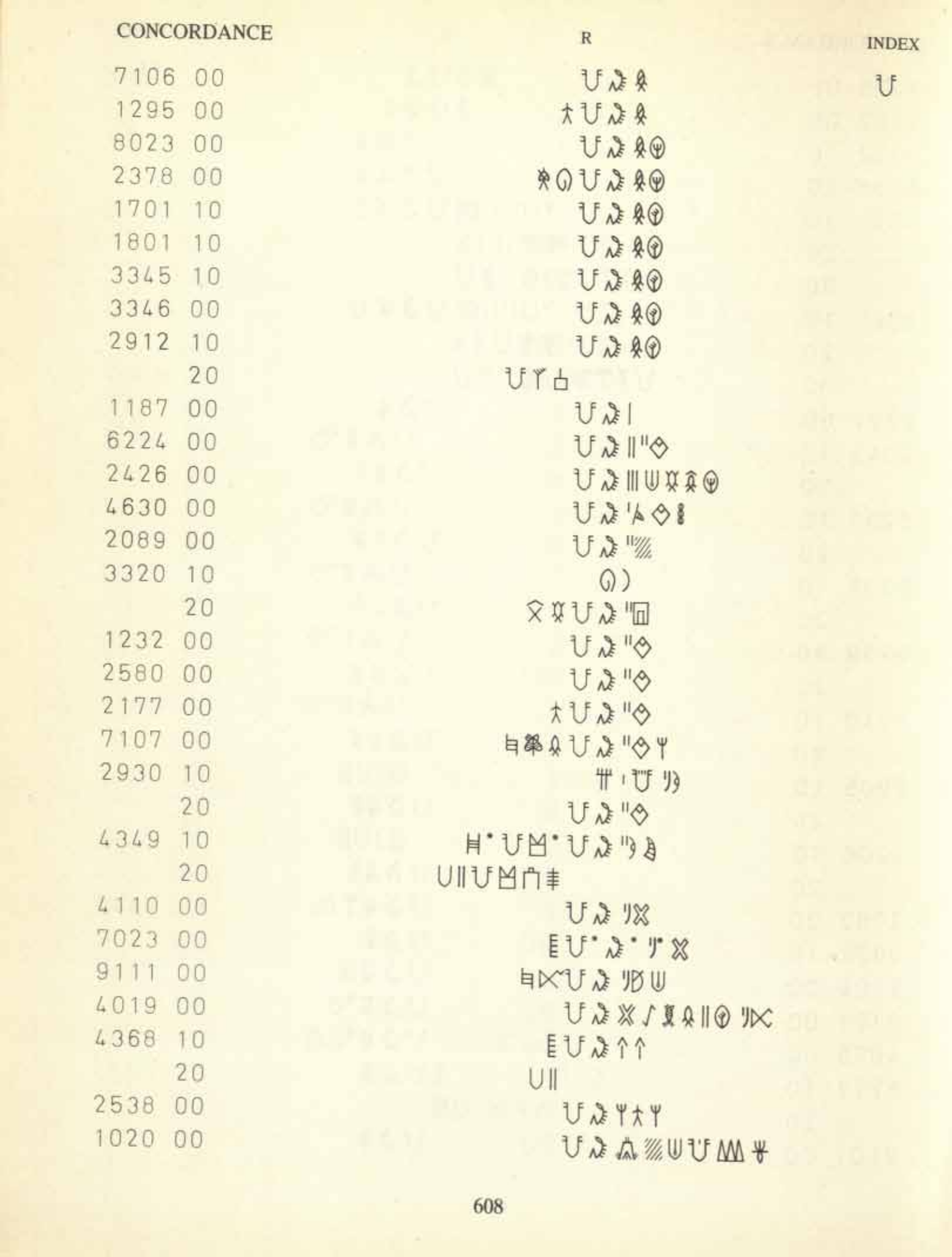

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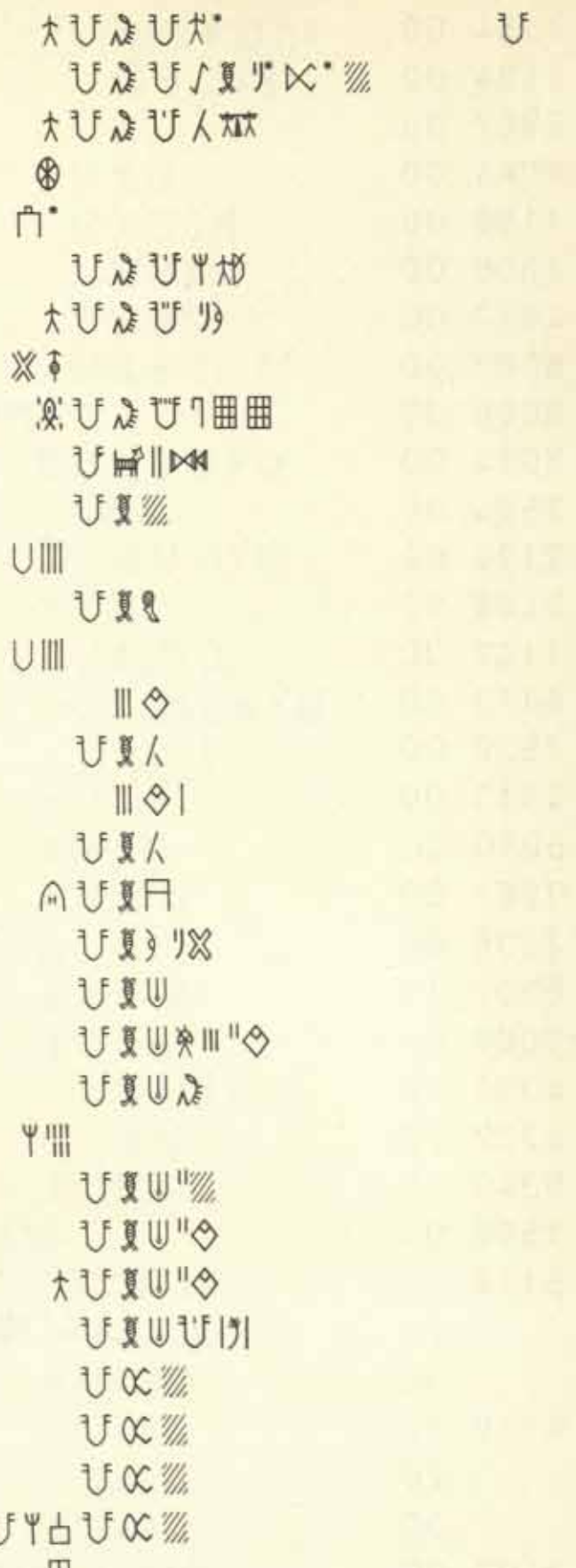

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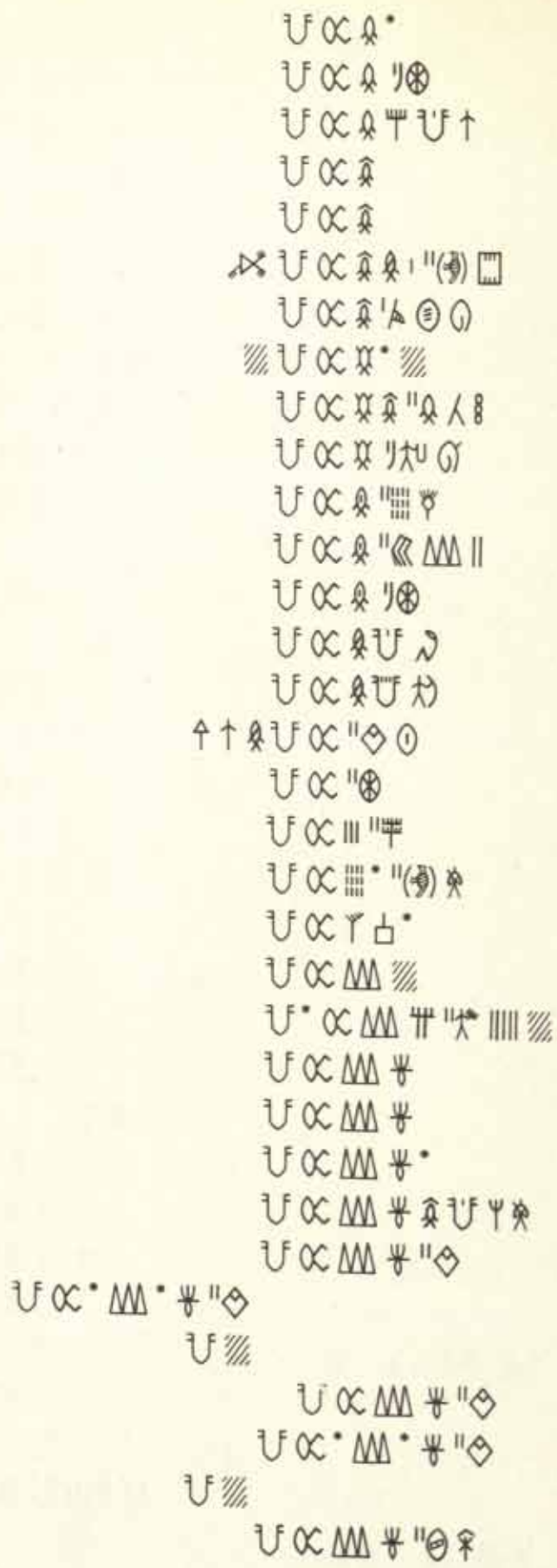

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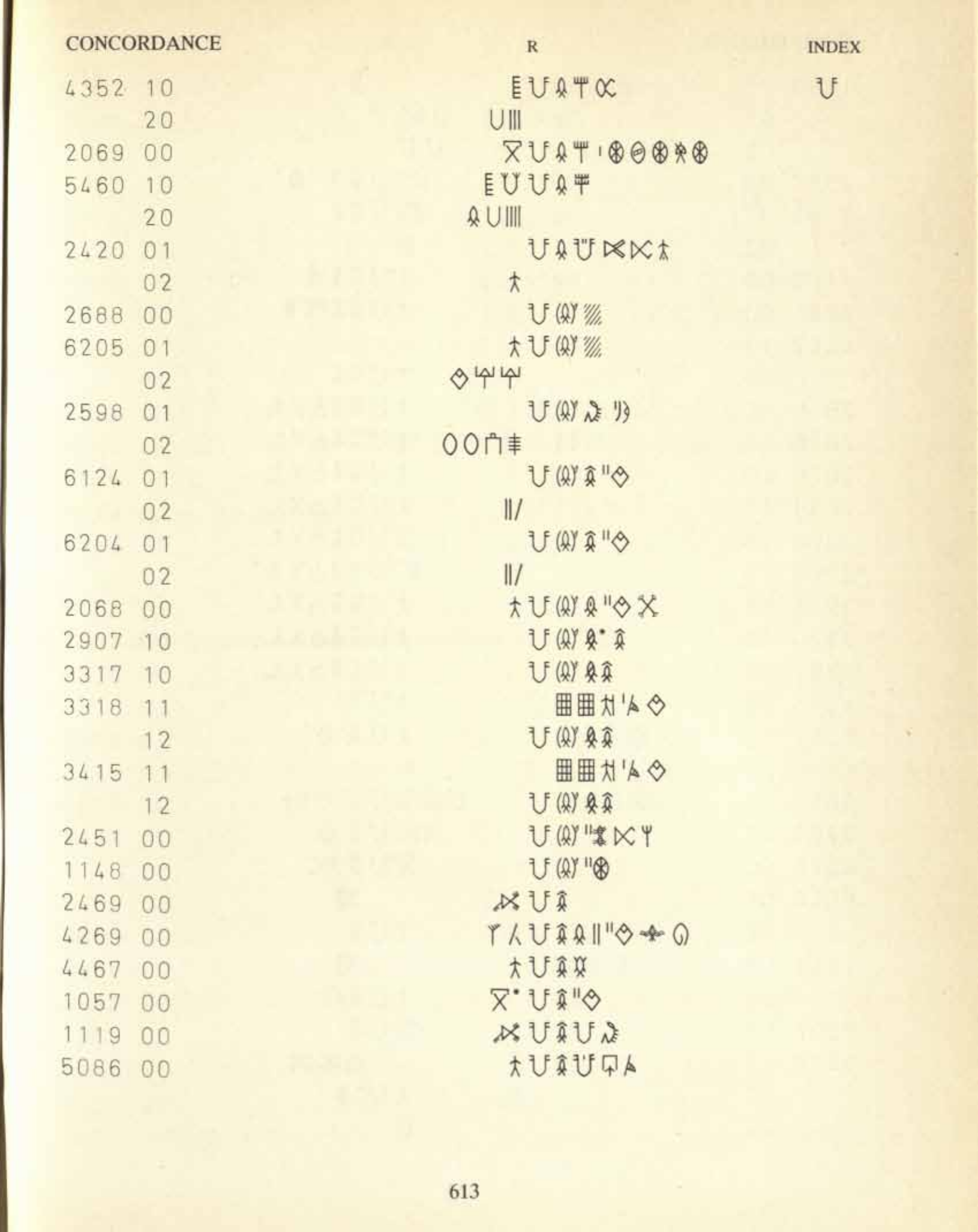

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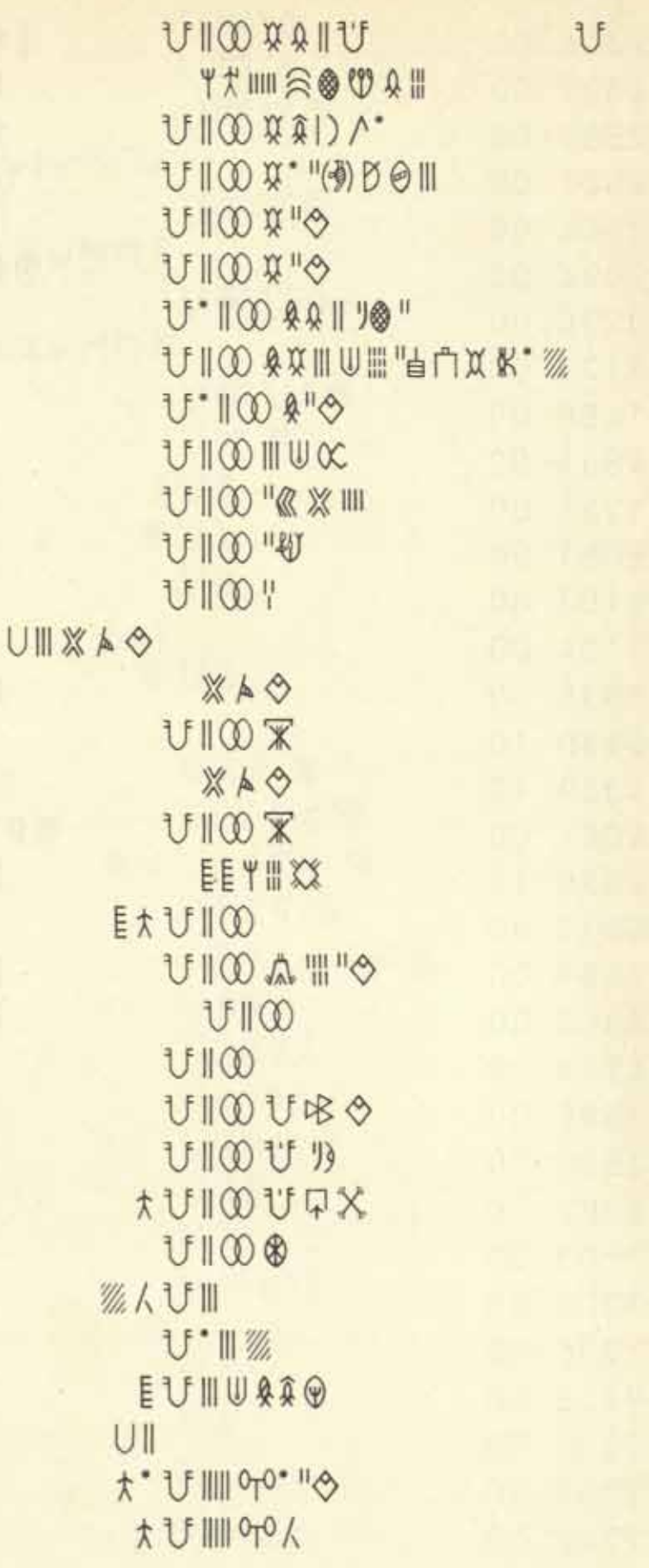

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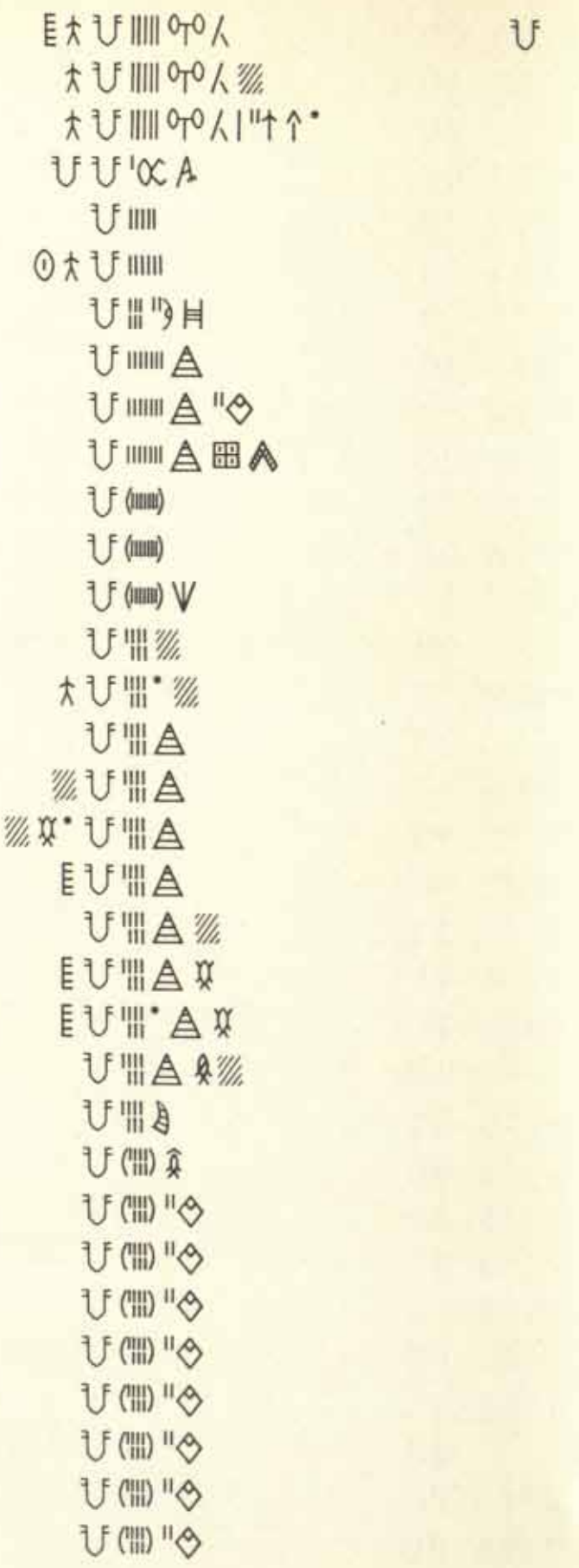

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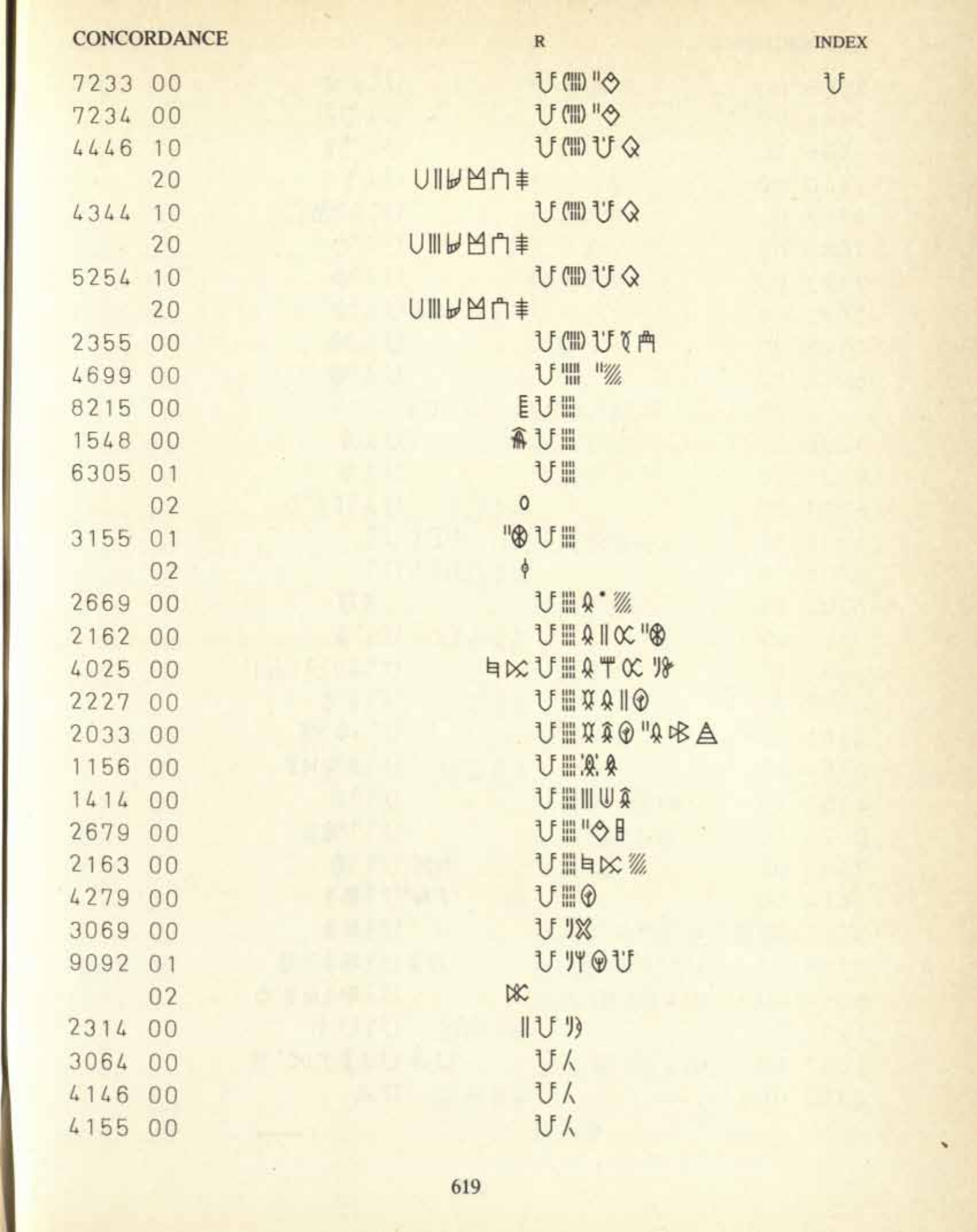

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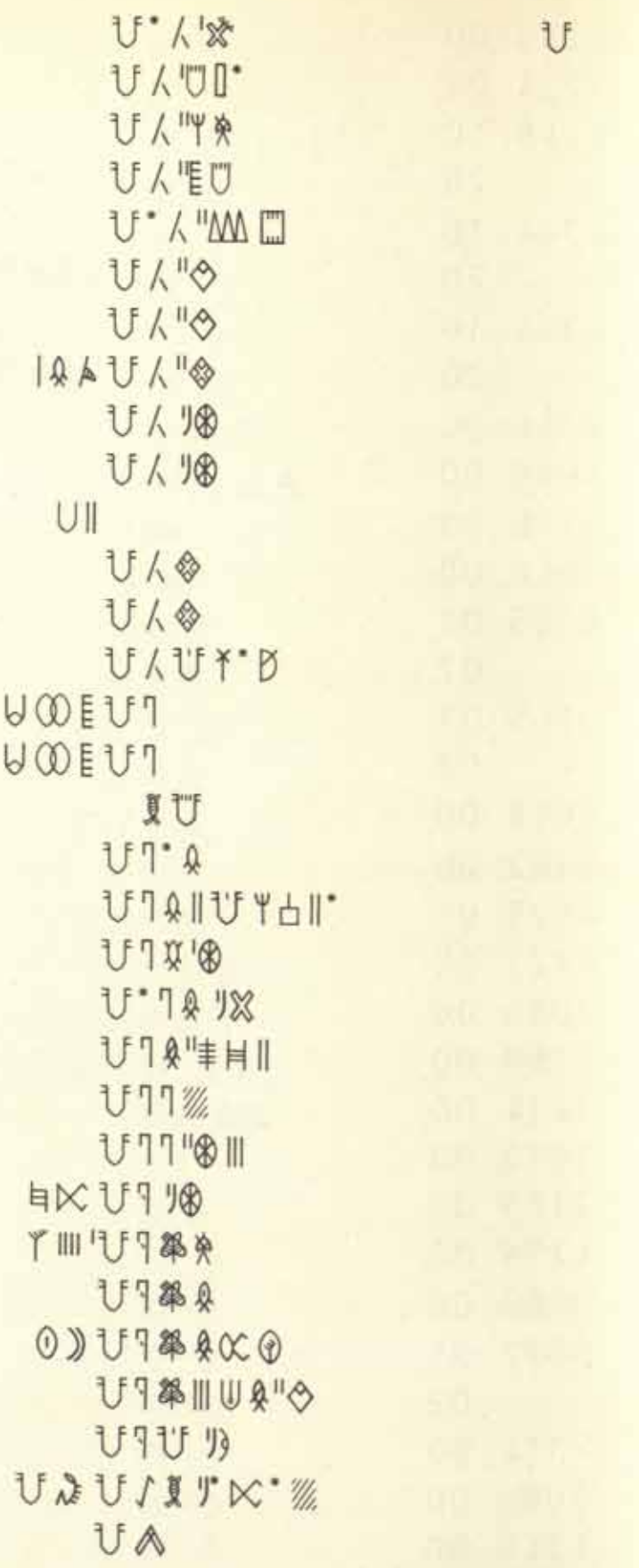

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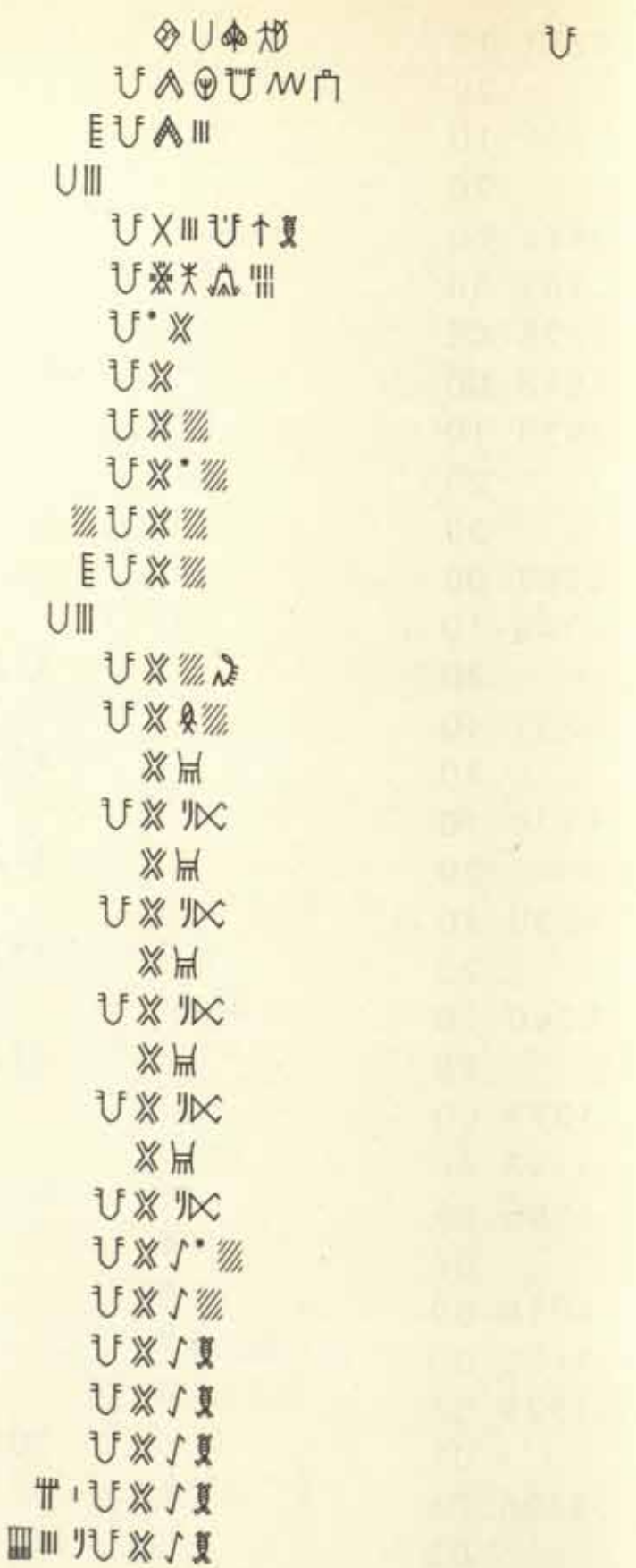

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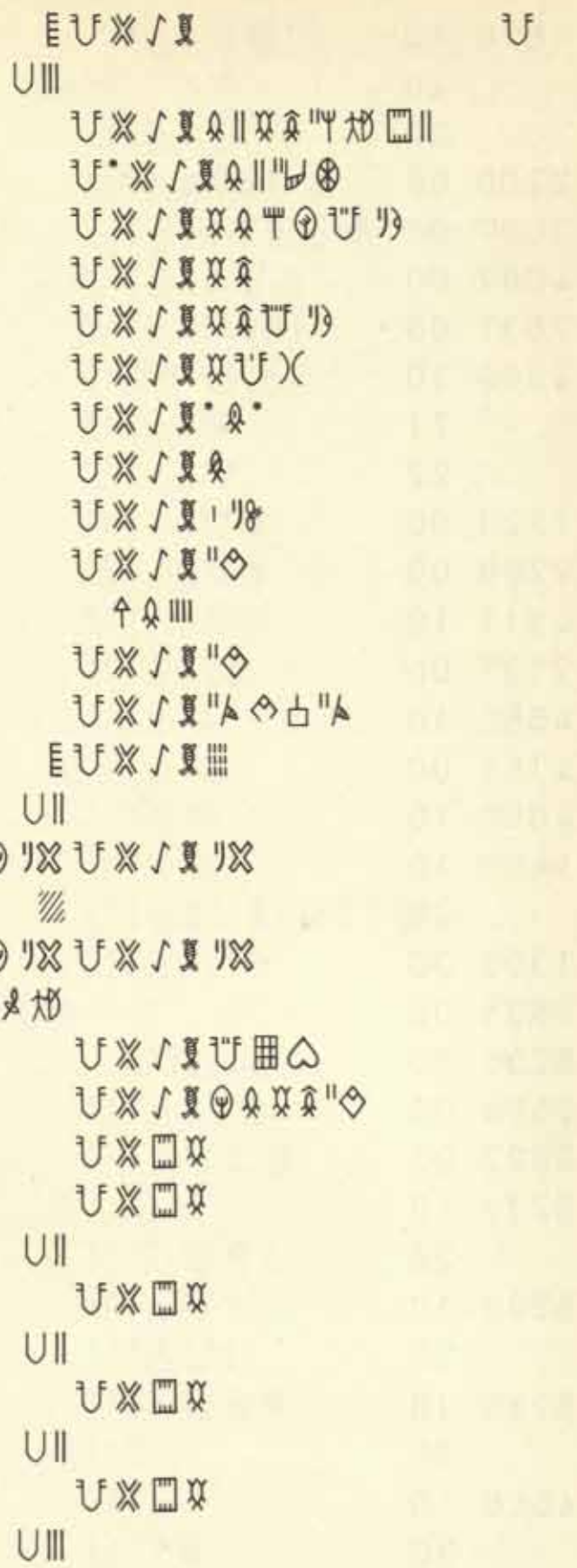

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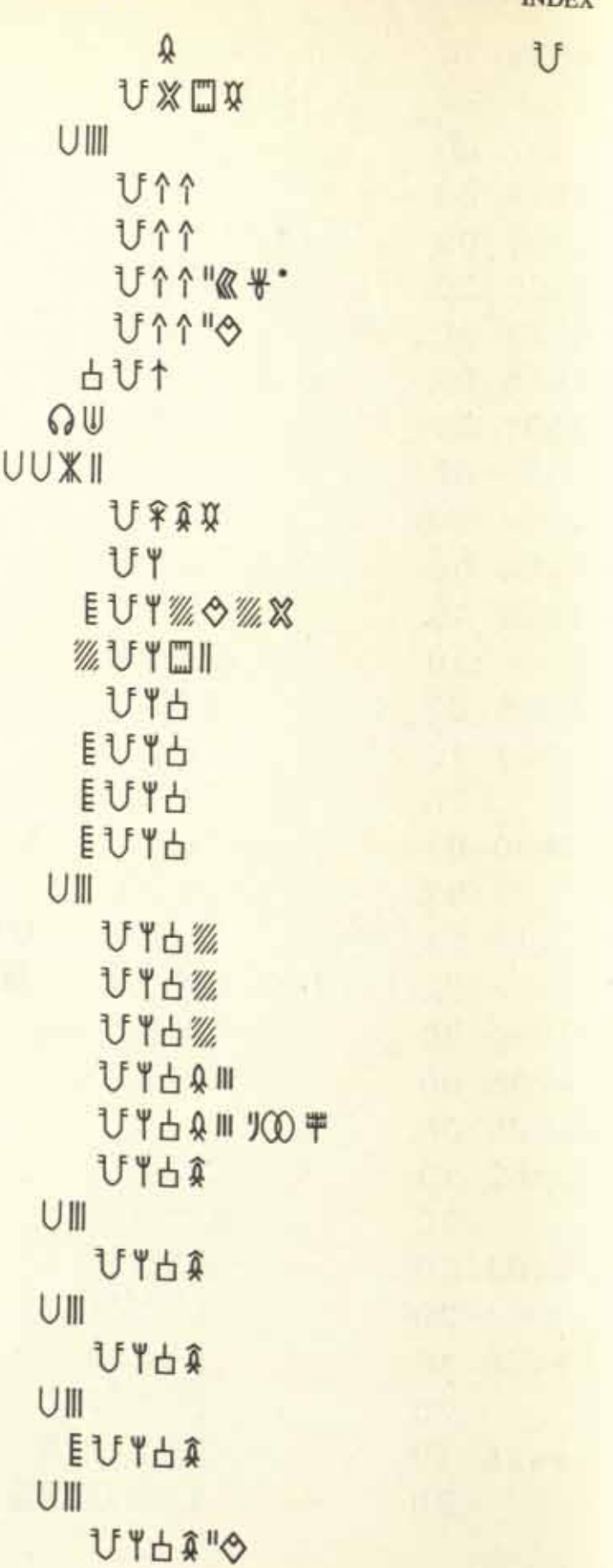

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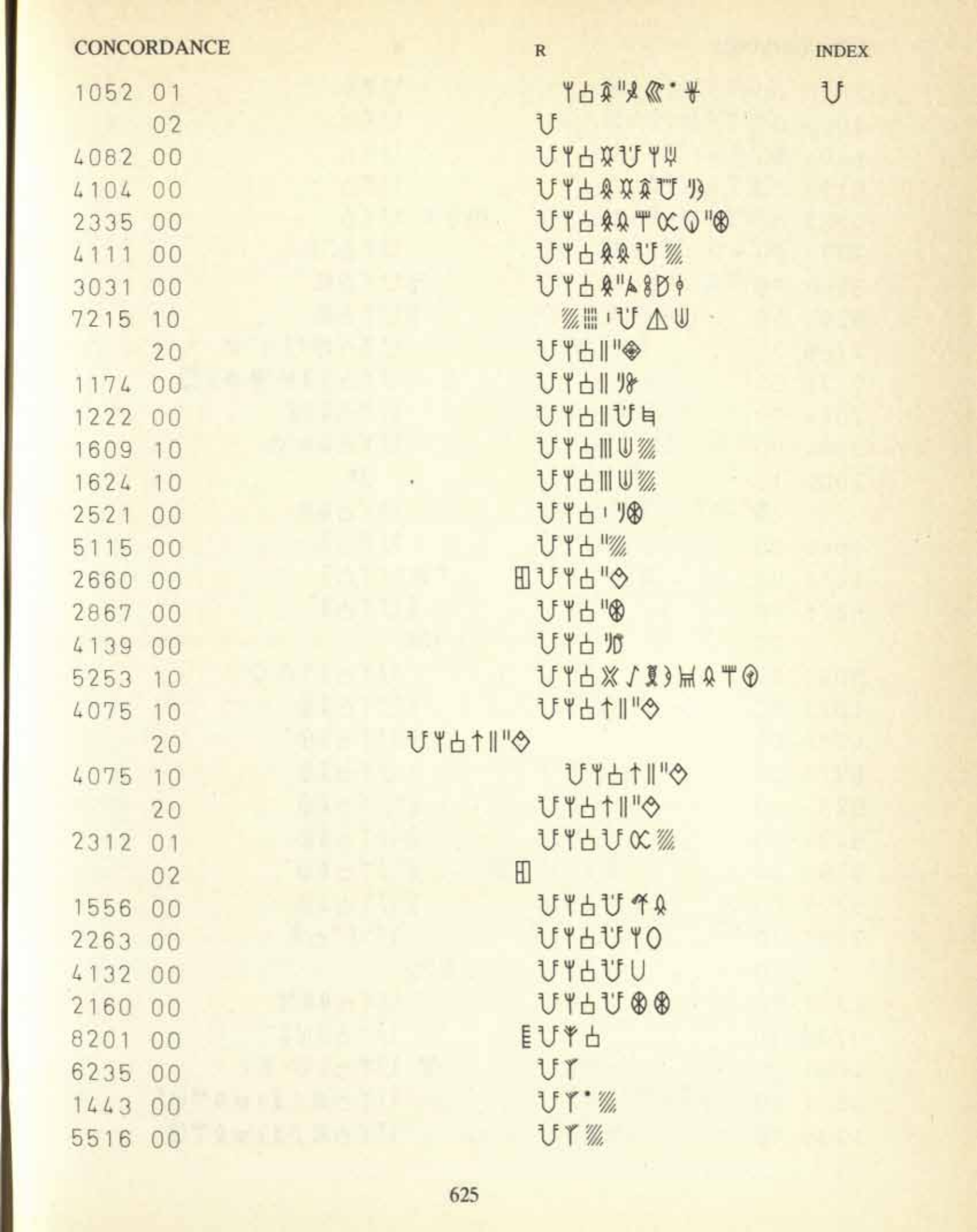

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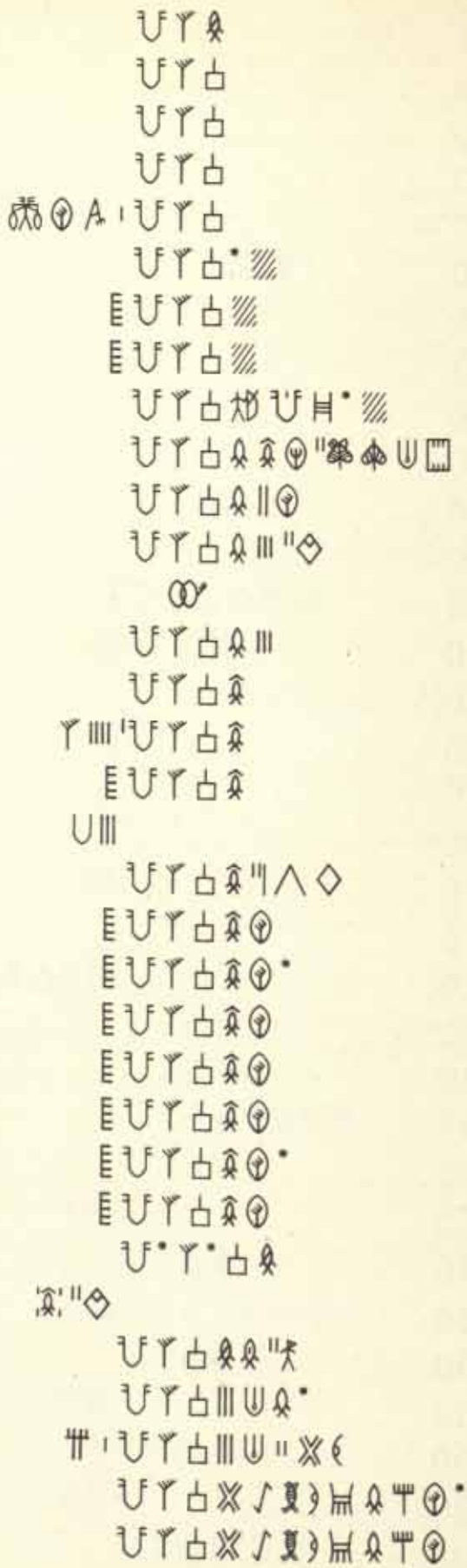

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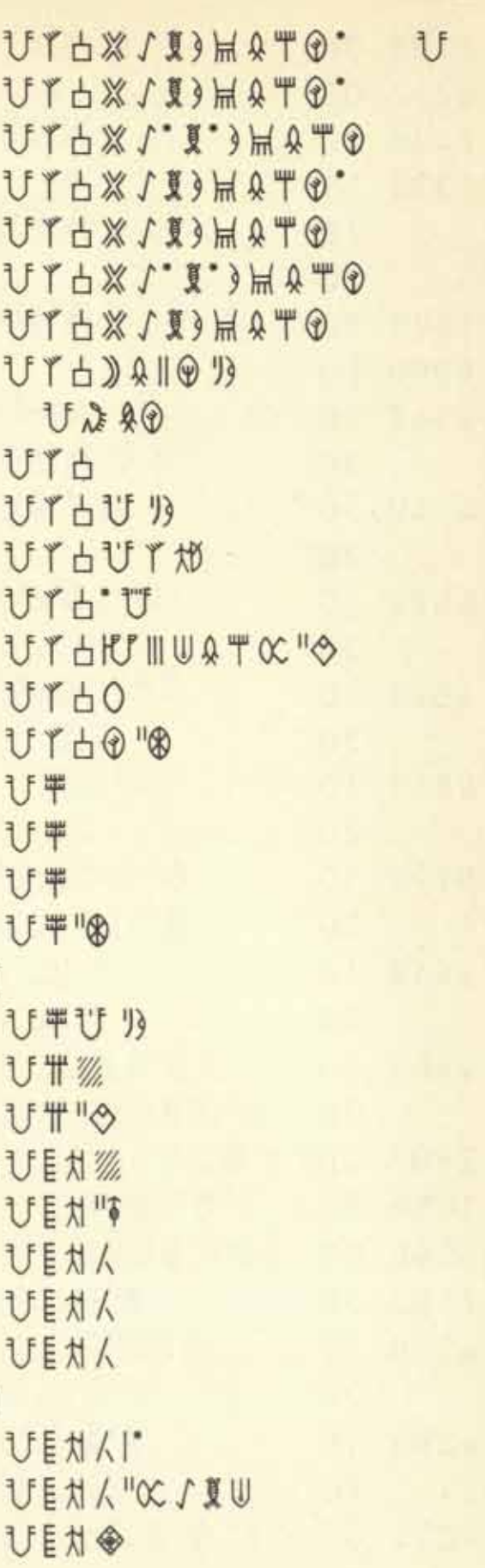

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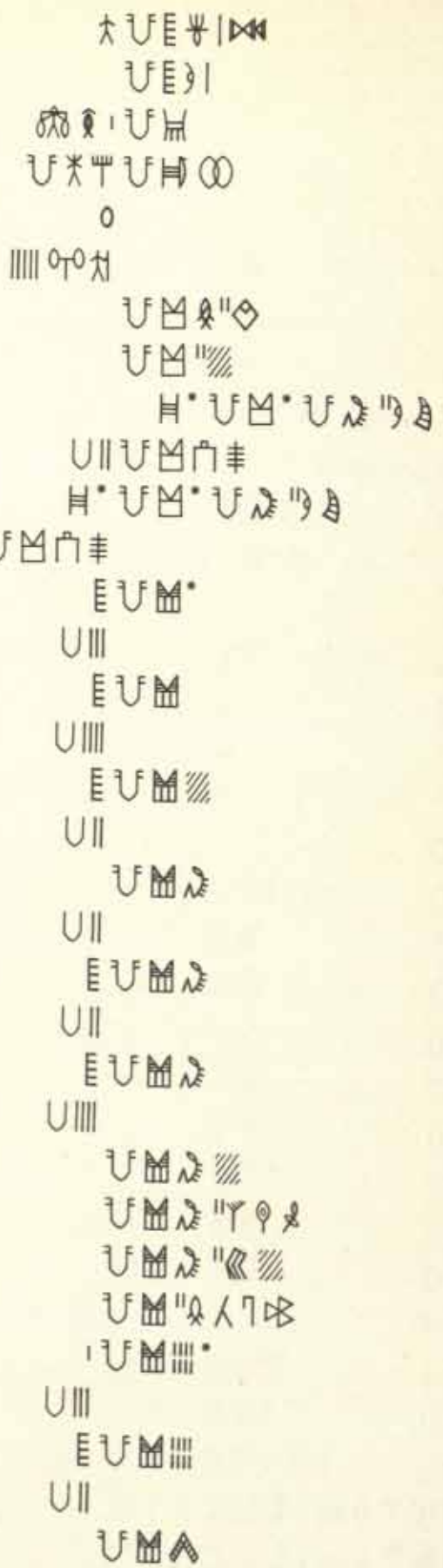

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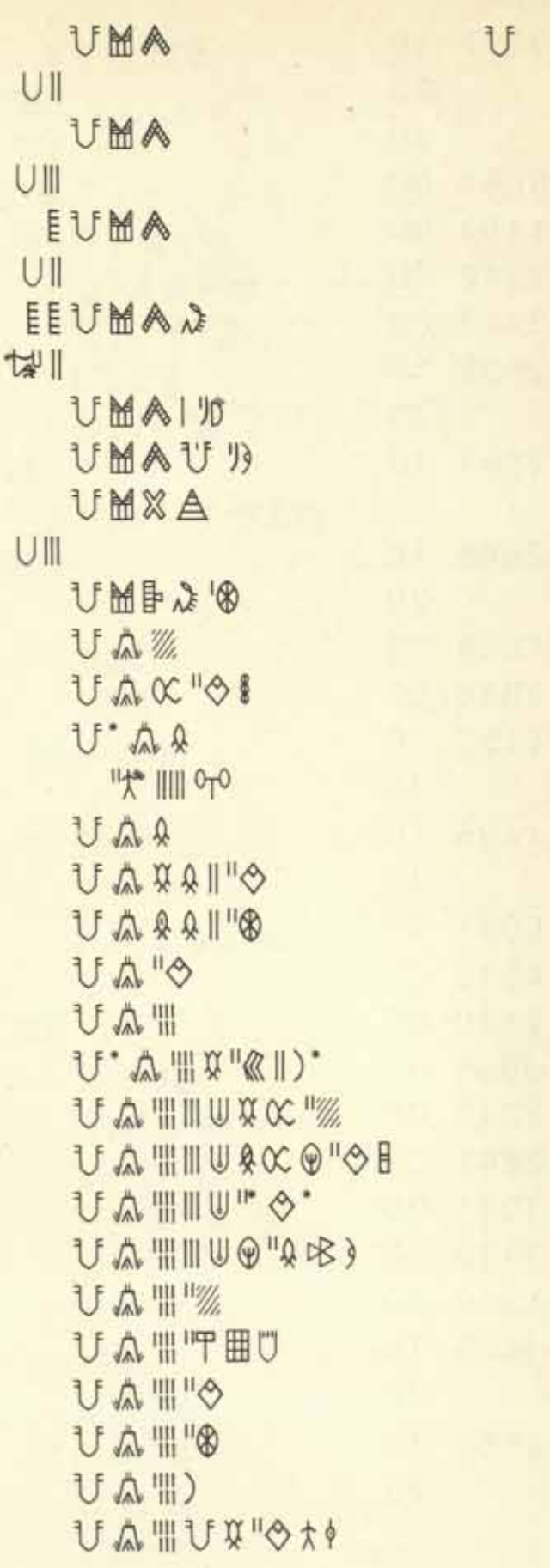

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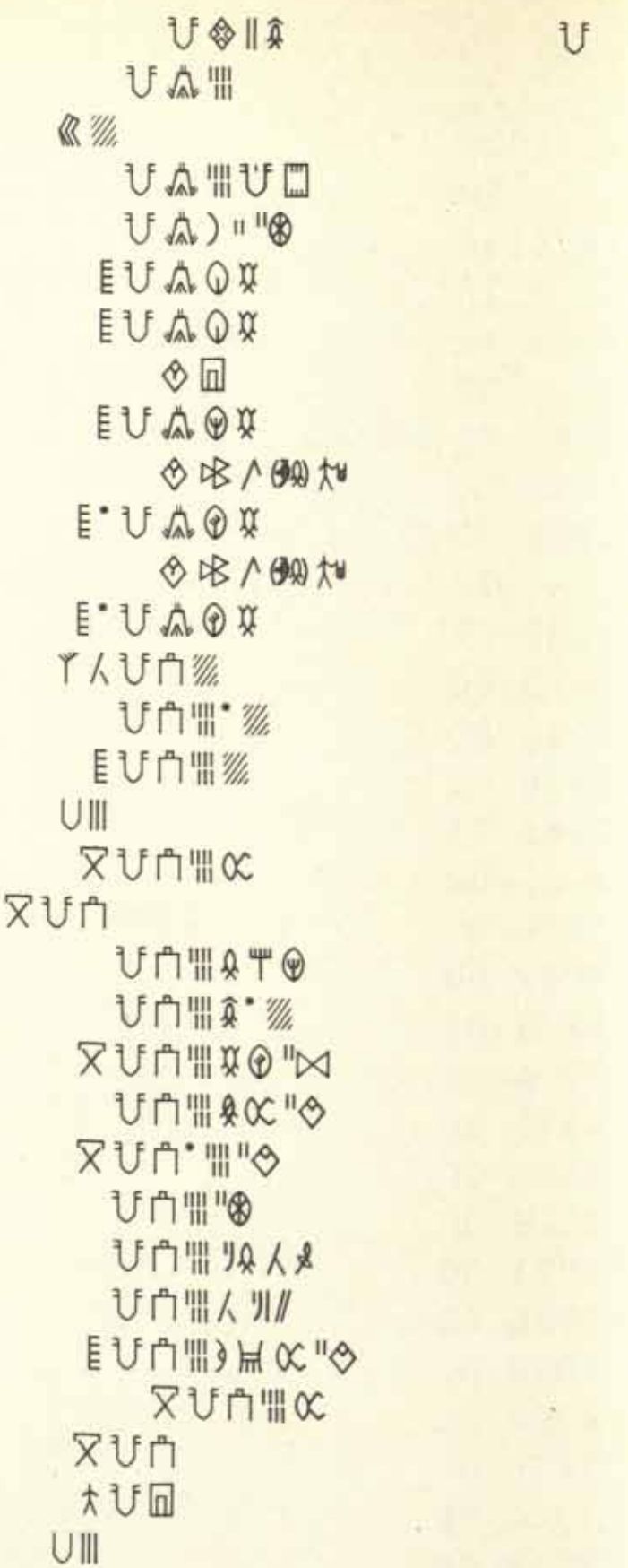

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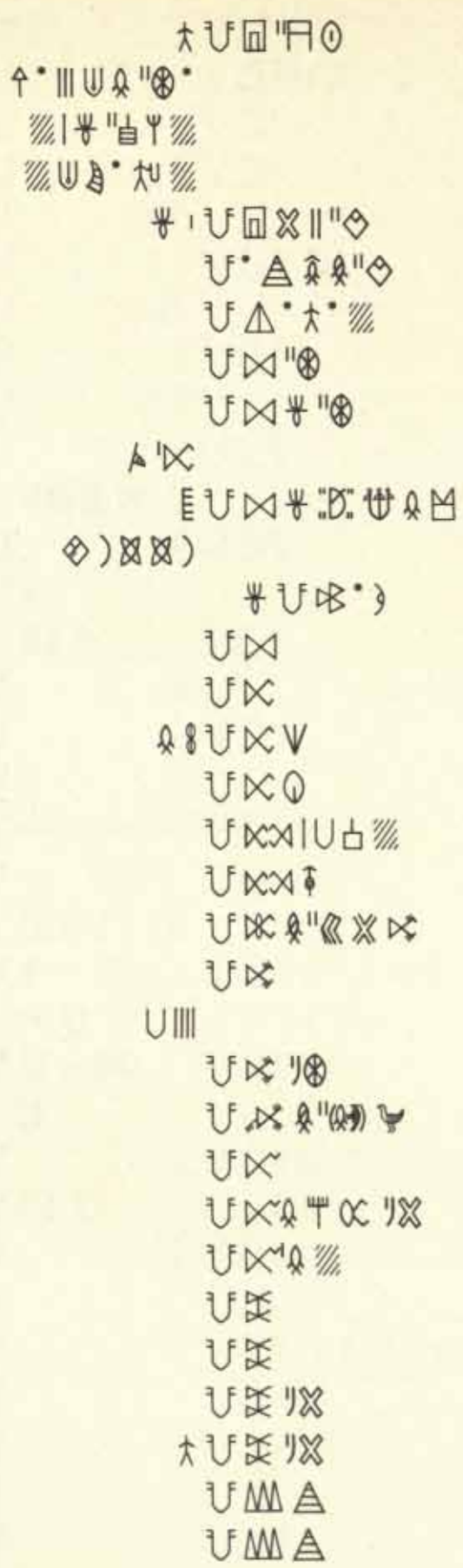

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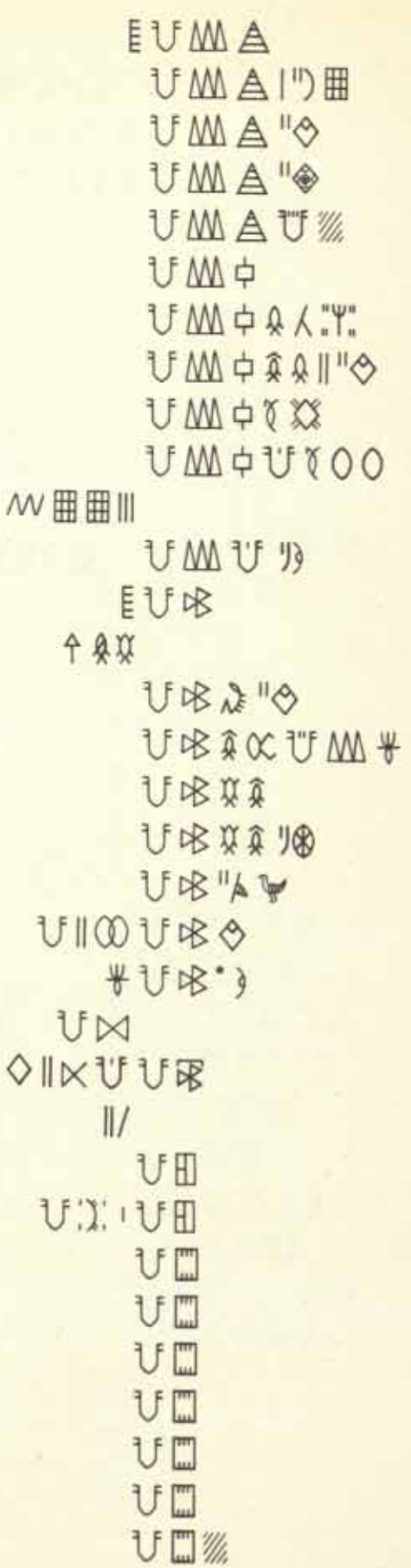

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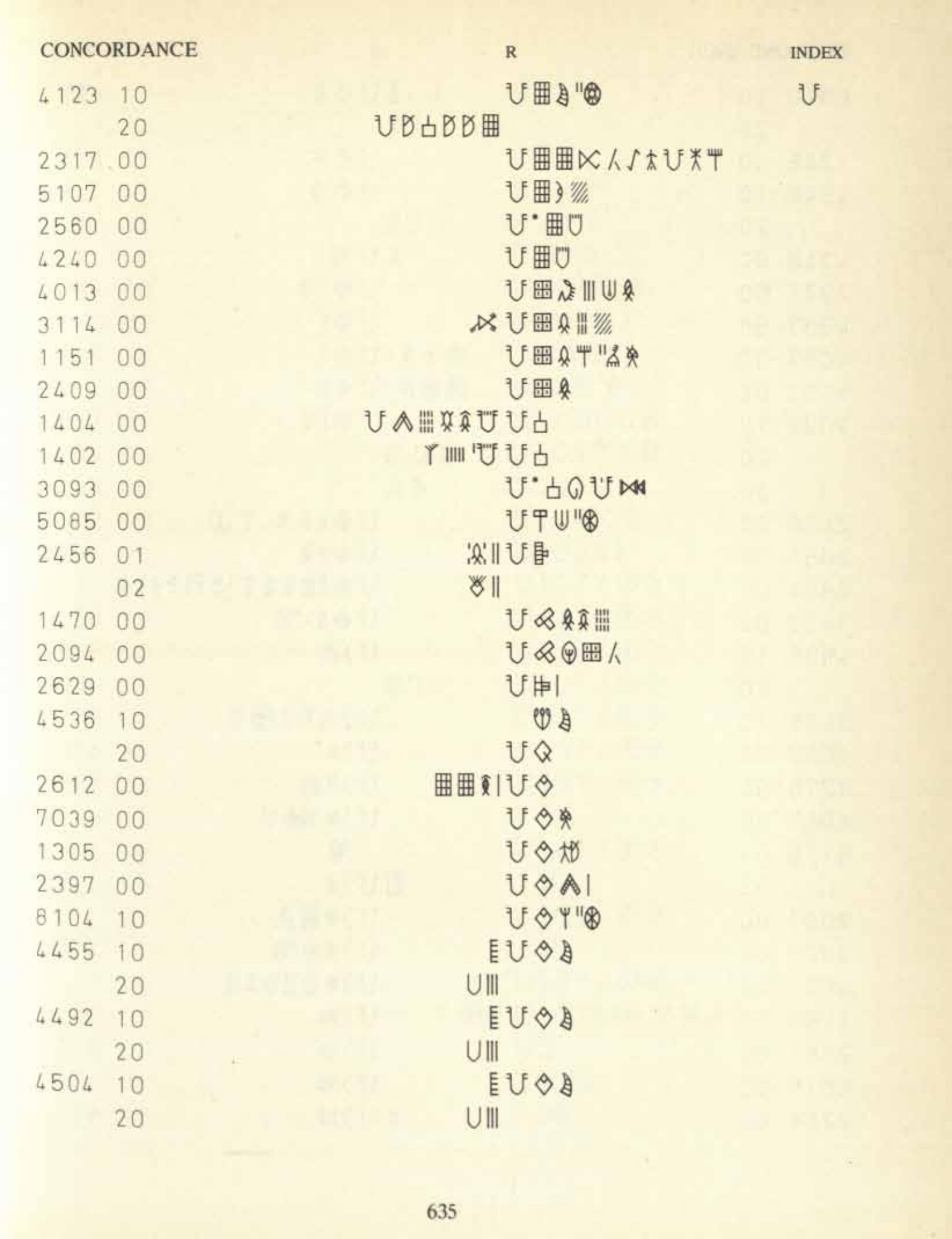

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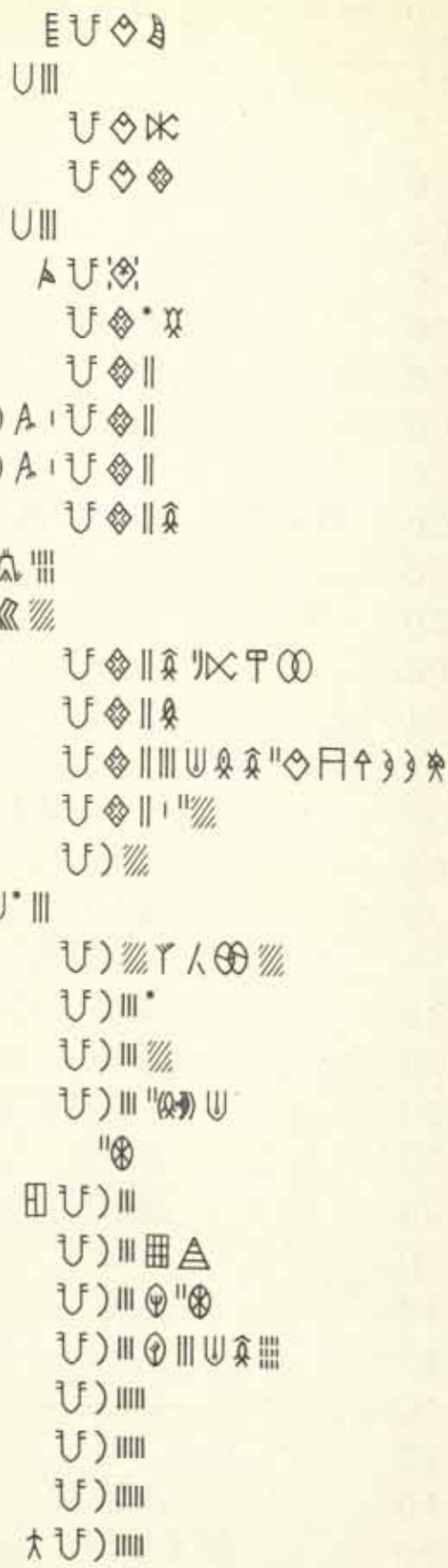

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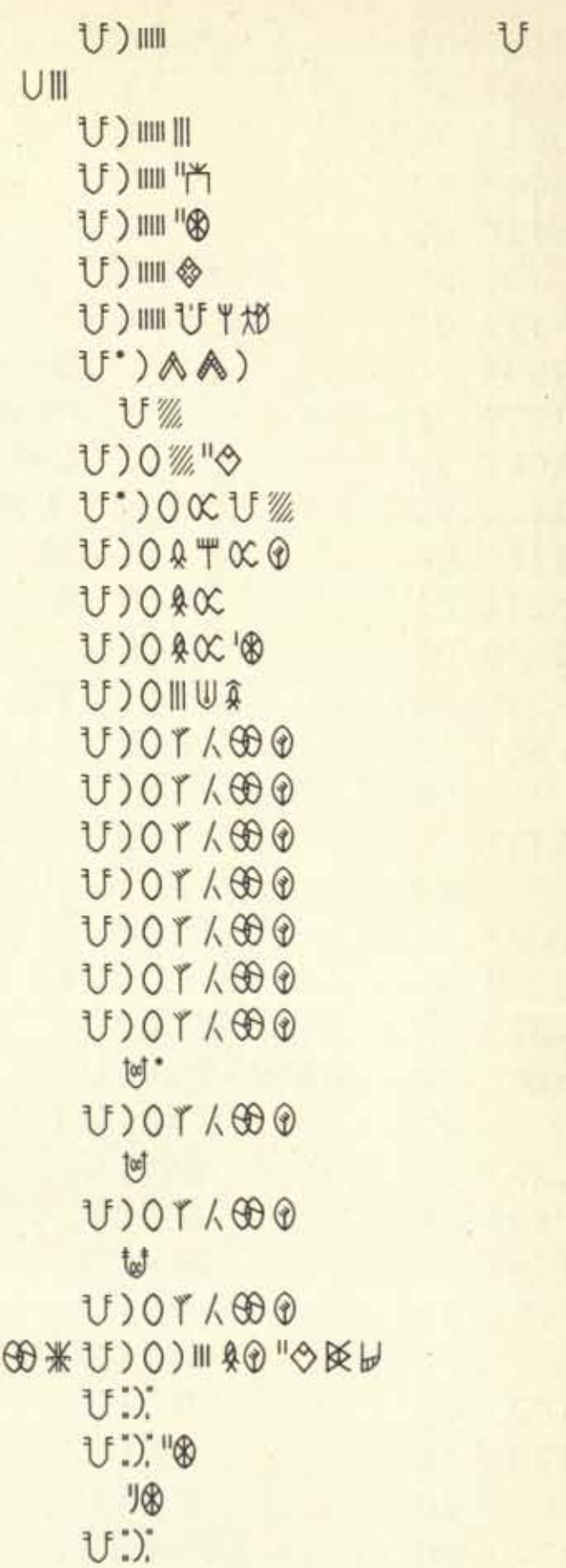

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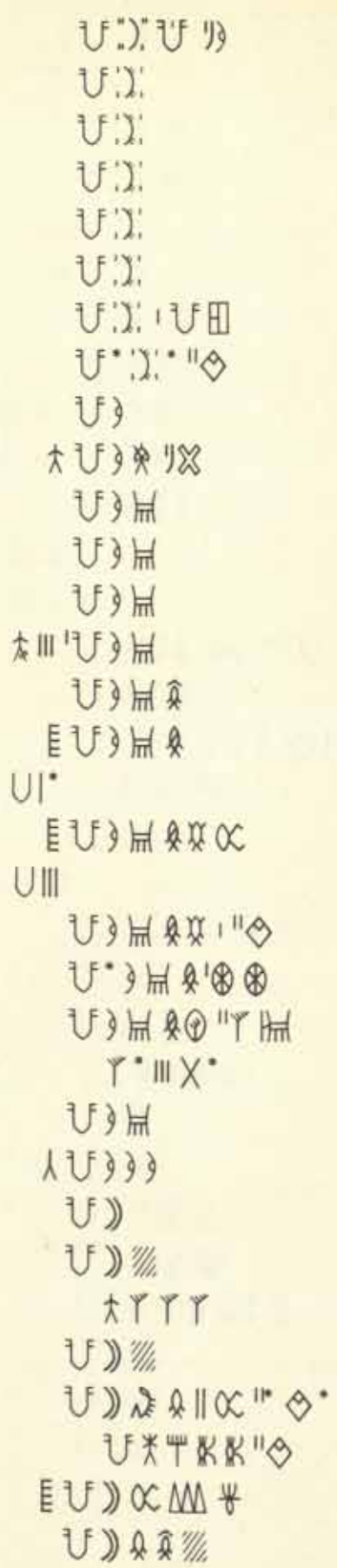

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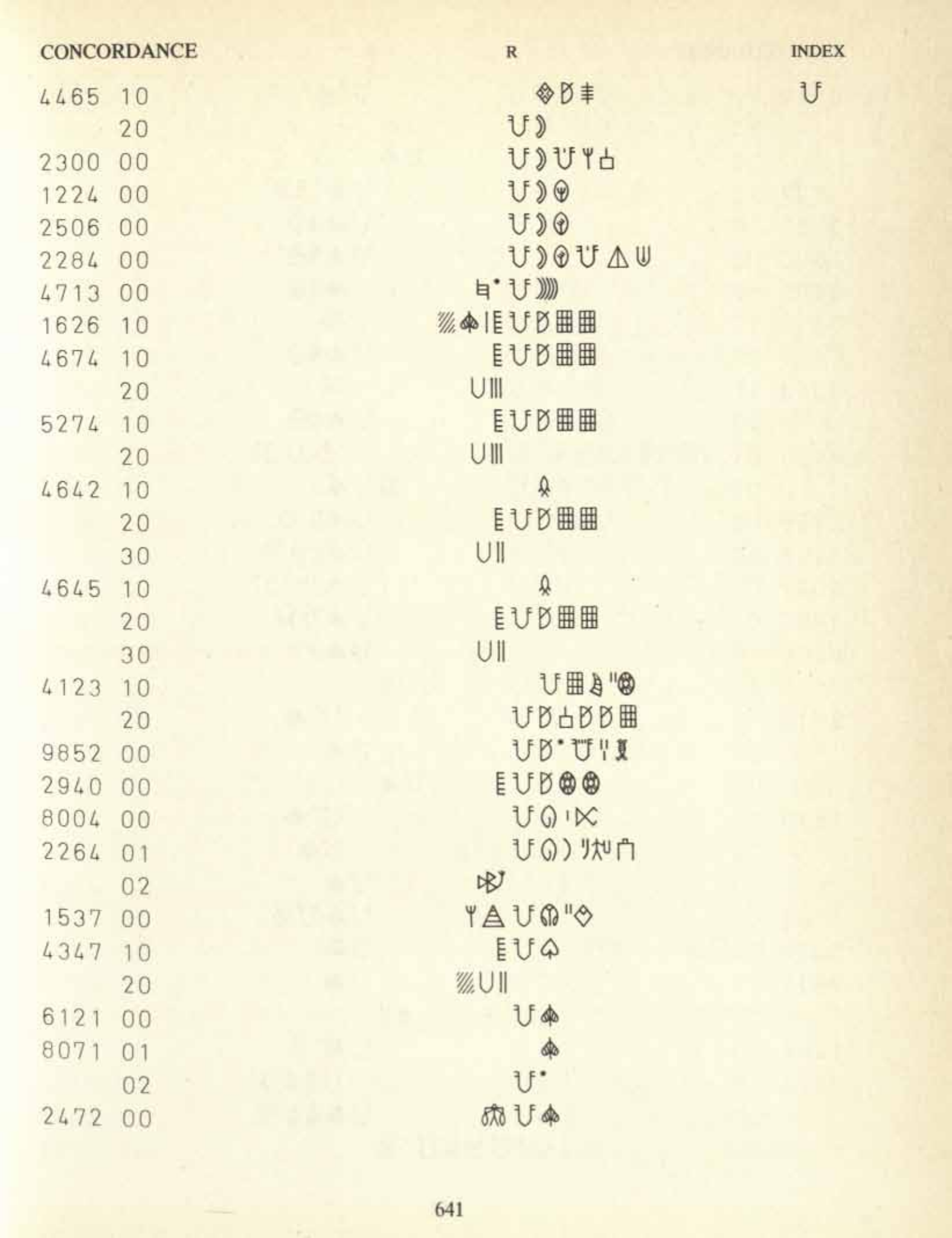

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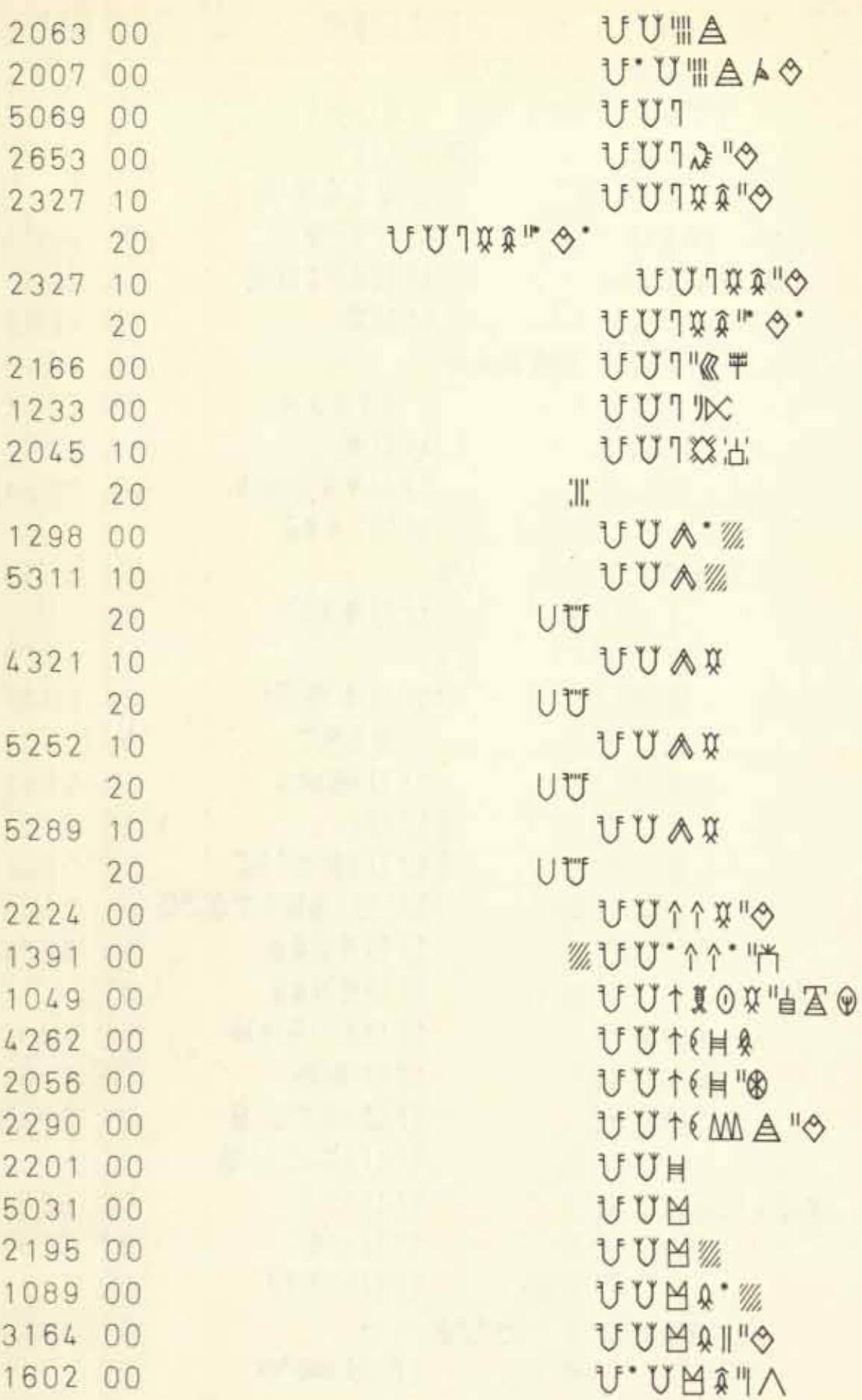

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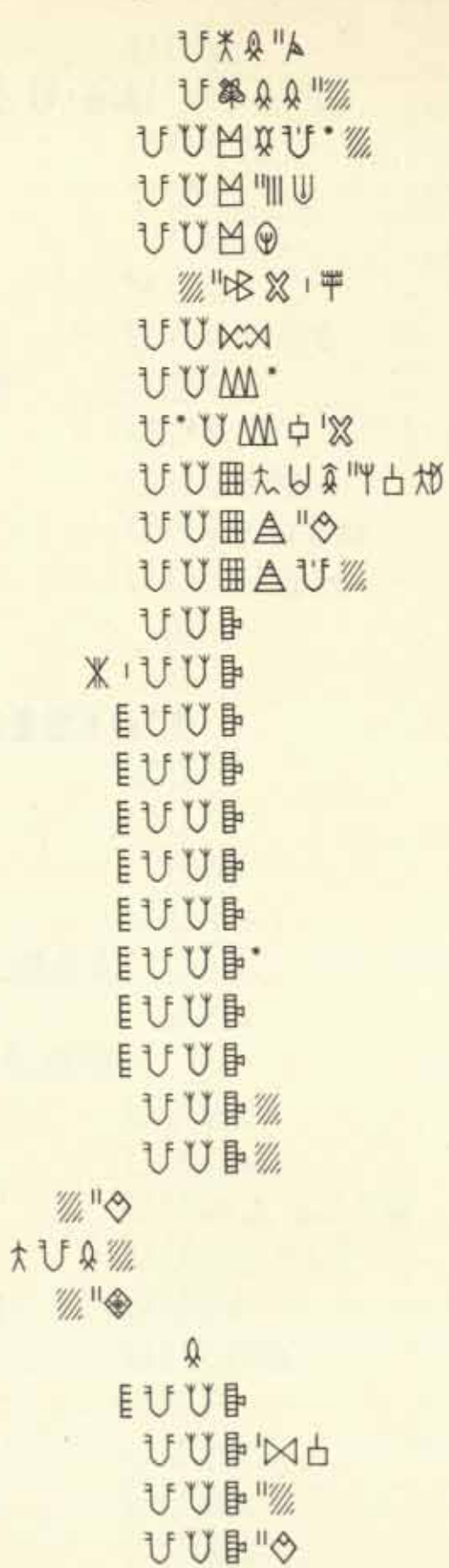

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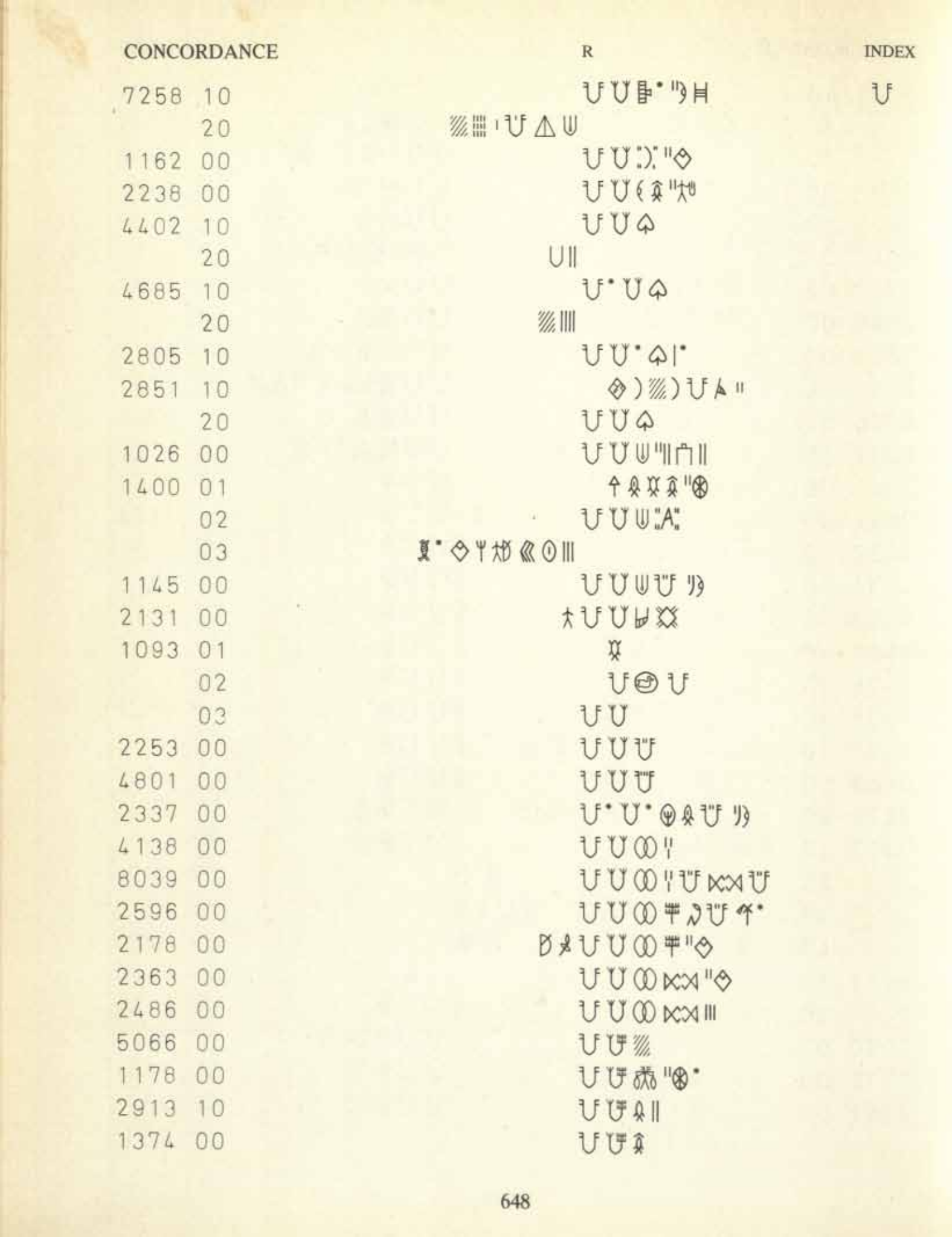

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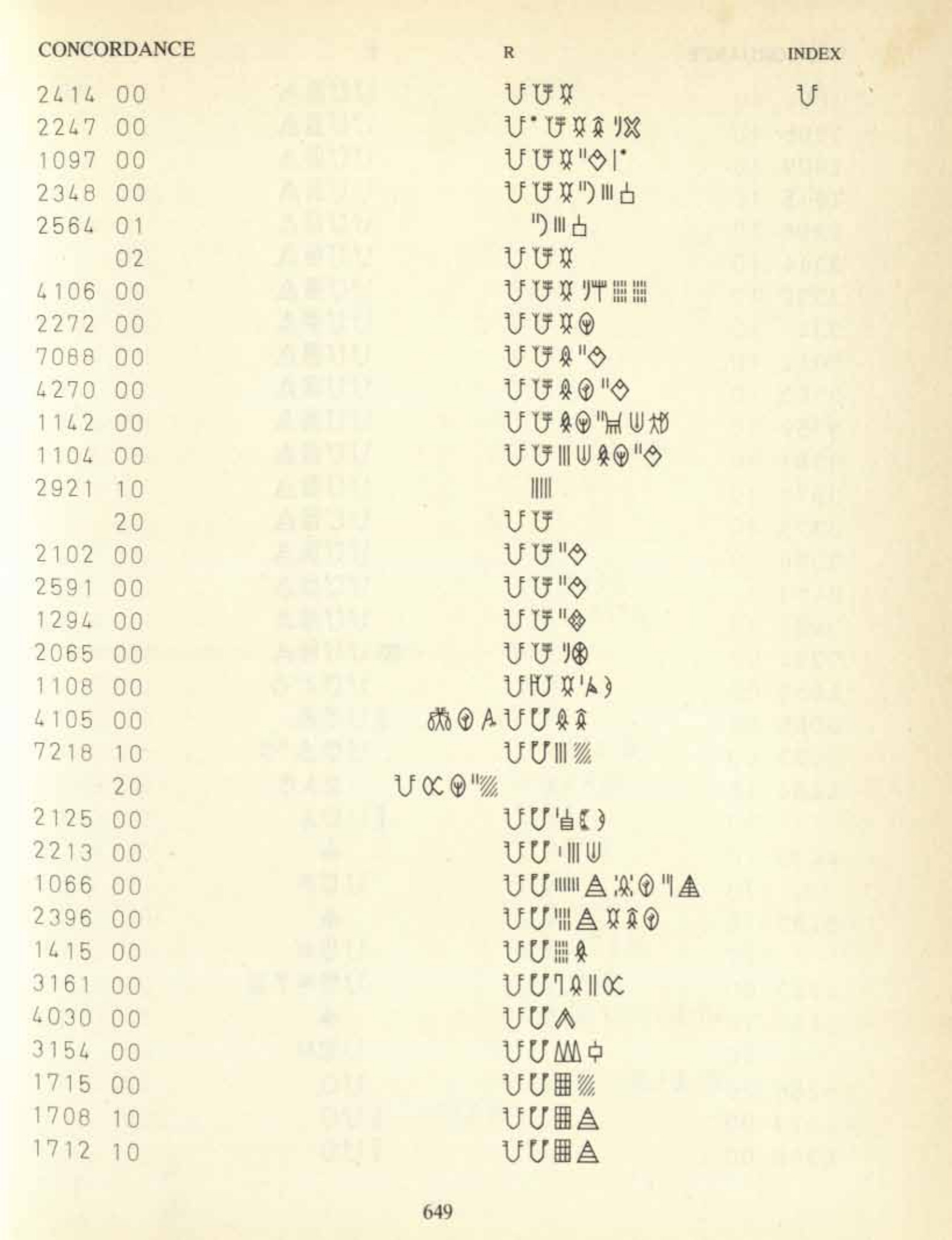

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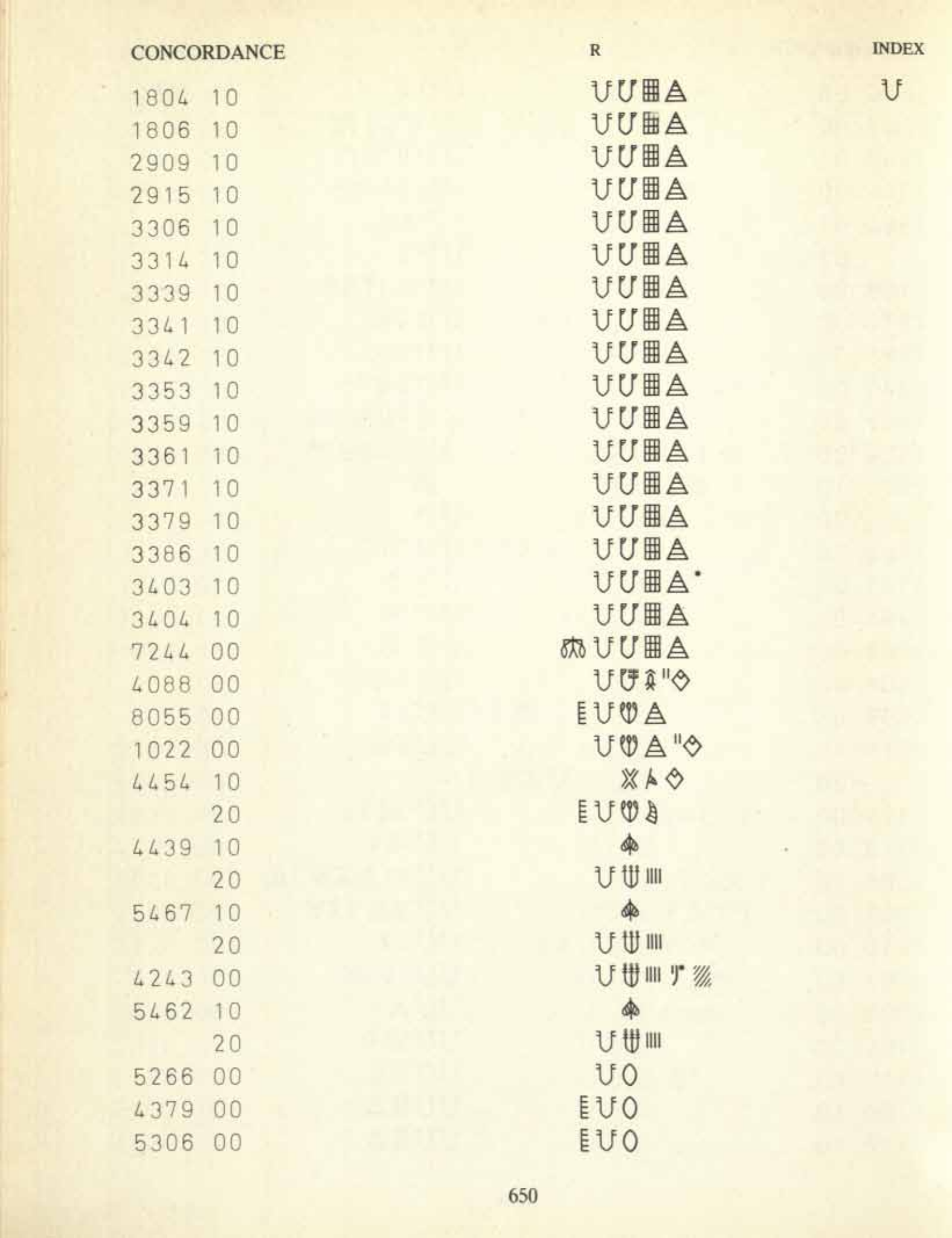

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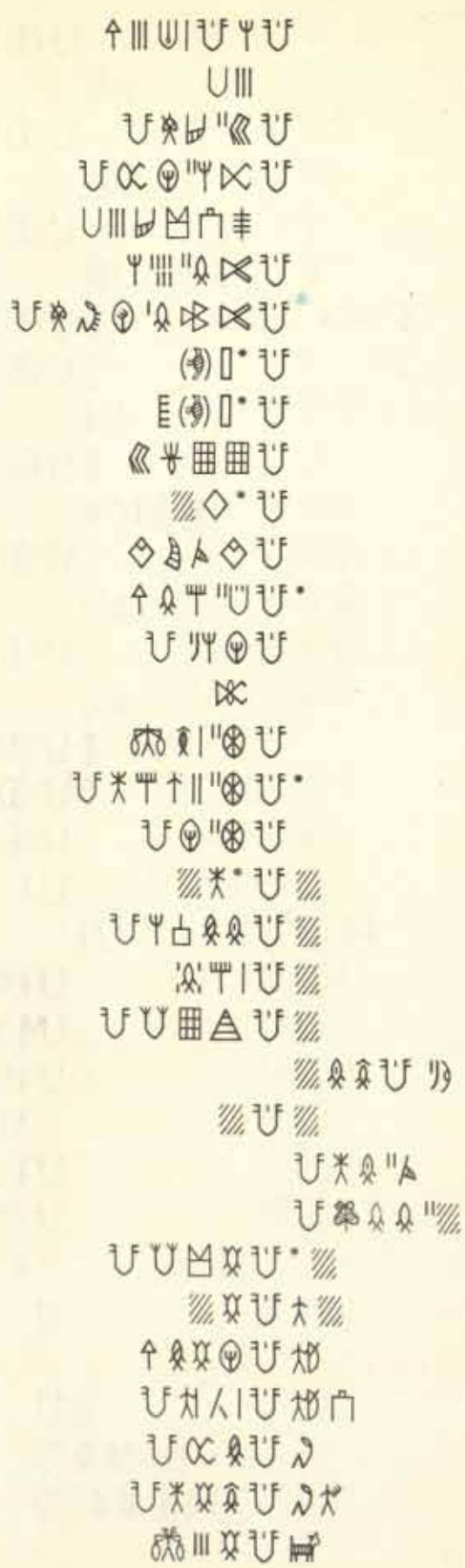

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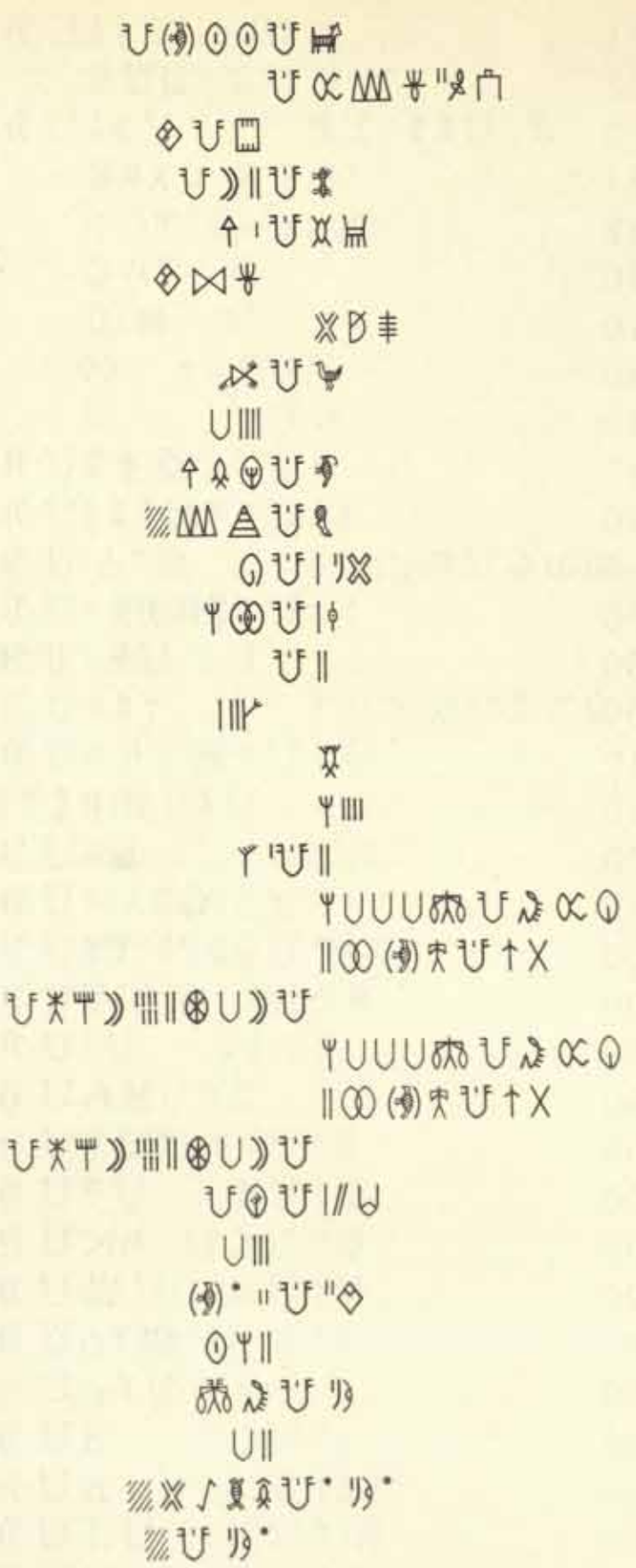
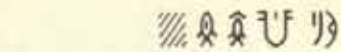
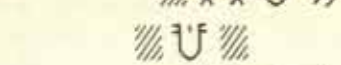
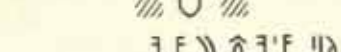
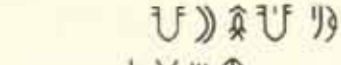
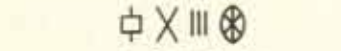
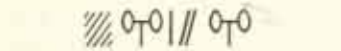
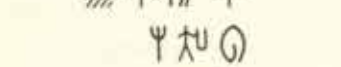
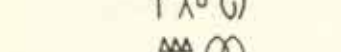


2558	01	
	02	
2405	10	
	21	
	22	
	30	
	40	
	50	
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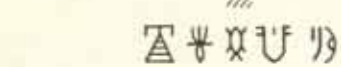
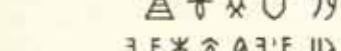
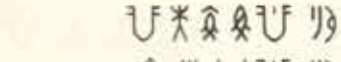
6231	00	
8026	00	
1331	00	
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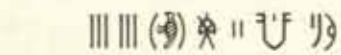
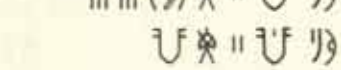
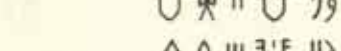
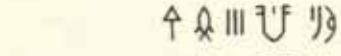
5310	10	
	20	
6222	00	
4319	10	
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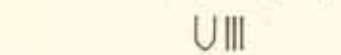
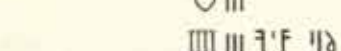
1442	00	
1212	00	
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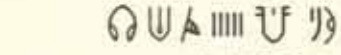
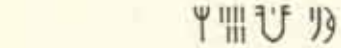
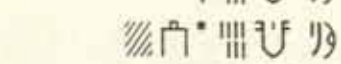
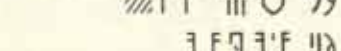
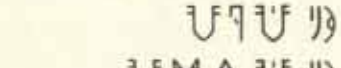
1630	00	
1234	00	
2010	00	
1160	00	
2609	00	
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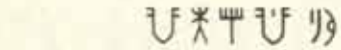
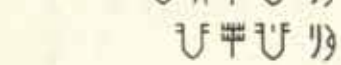
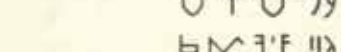
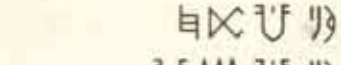
2501	00	
2613	00	
2070	00	
2650	00	

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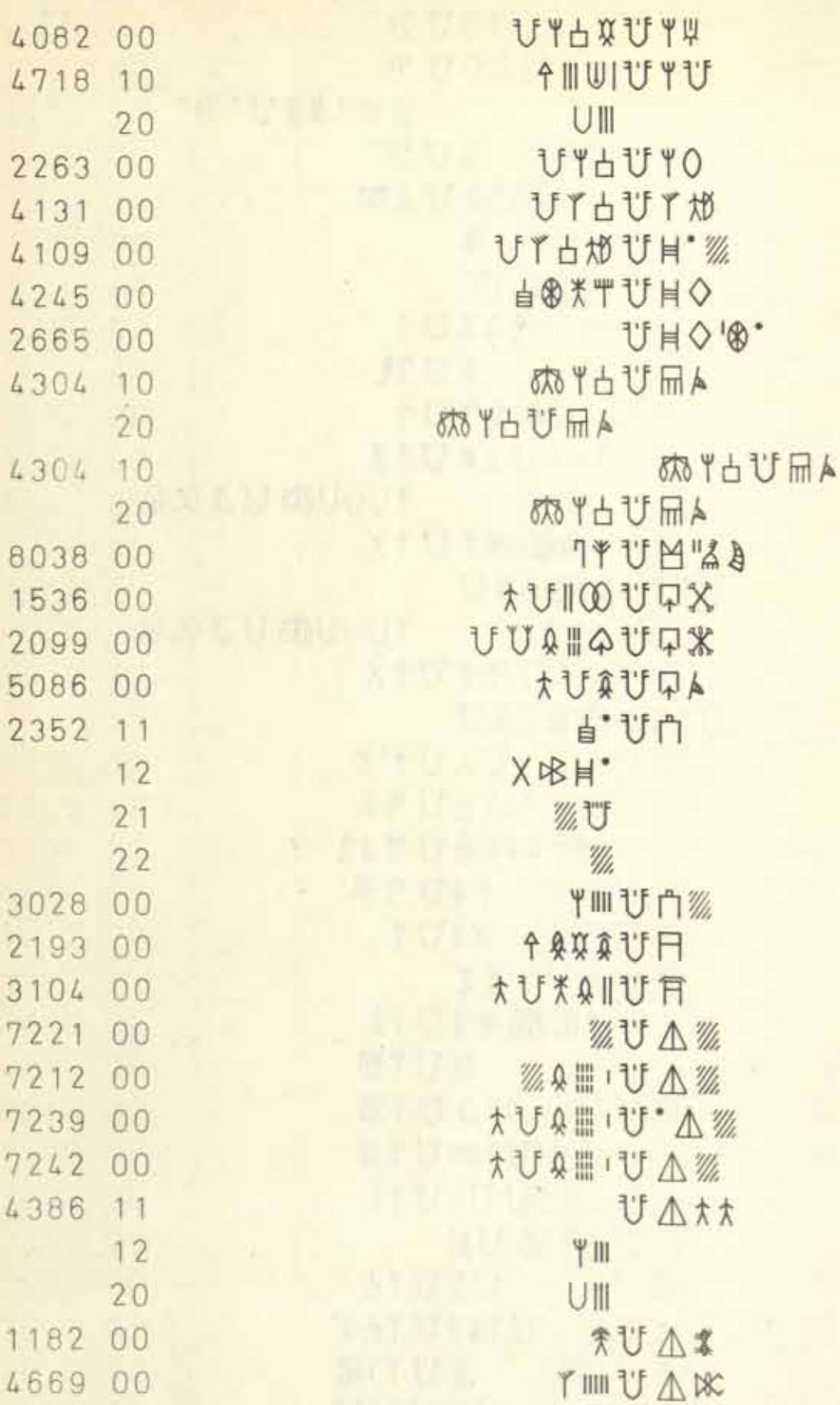

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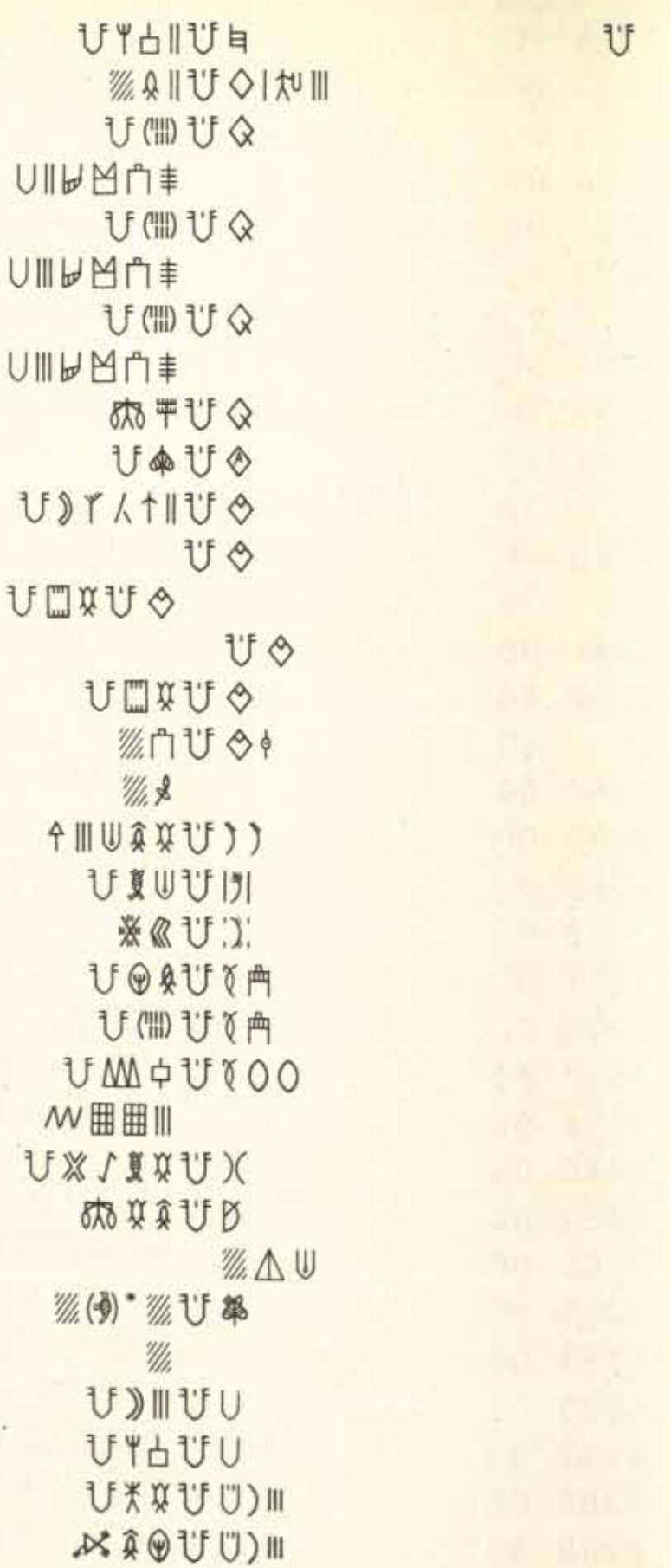

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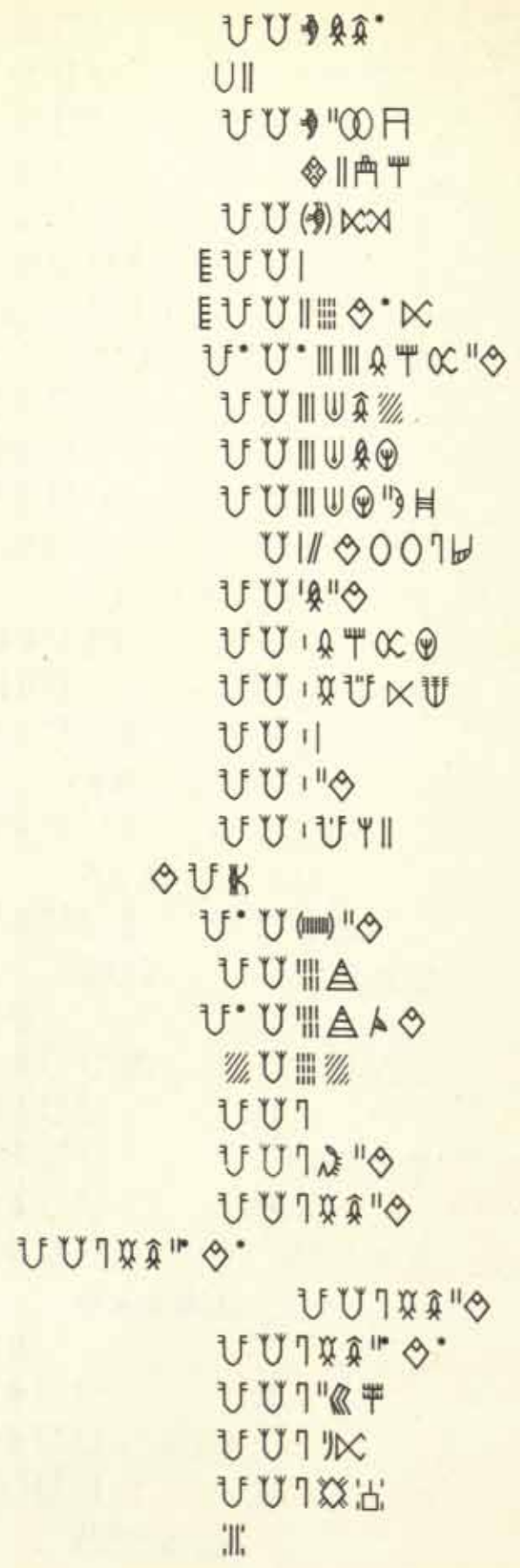

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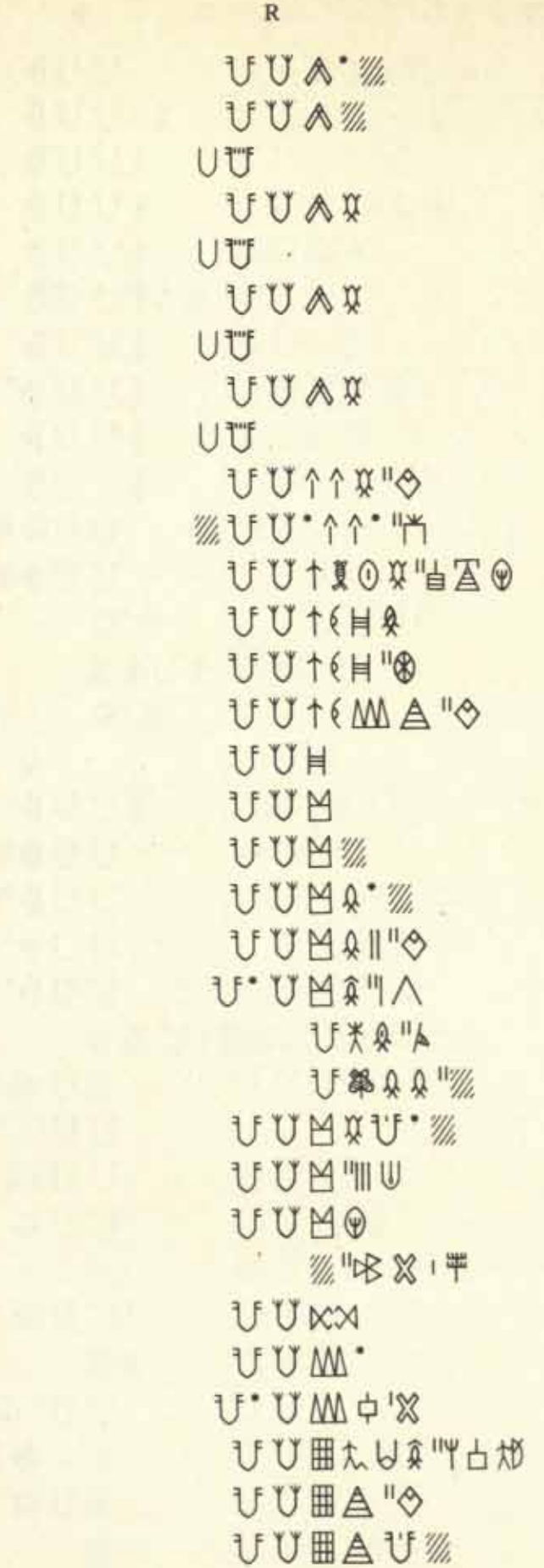
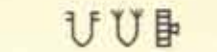
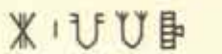
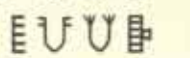
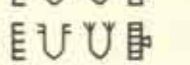
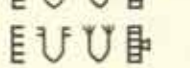
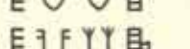


2341	00	
7094	00	
4430	10	
4431	10	
4433	10	
4434	10	
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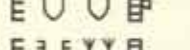
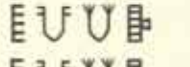
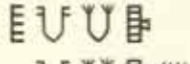
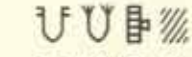
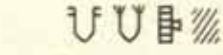
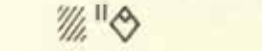
5431	10	
5459	10	
7211	00	
7217	10	
	20	
	30	
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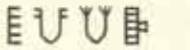
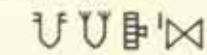
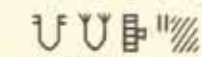
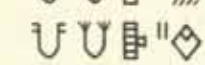
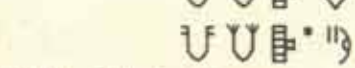
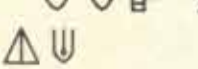
7020	00	
7216	00	
2051	00	
7258	10	
	20	
7301	00	
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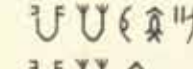
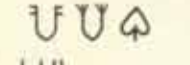
	20	
4685	10	
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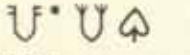
2805	10	
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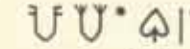
	20	
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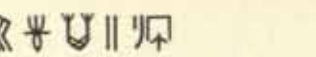
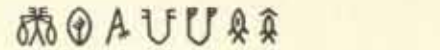
2465 00 

4105 00 
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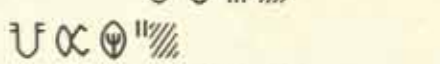
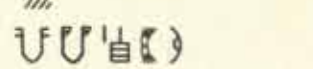
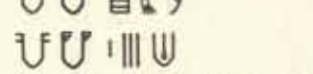
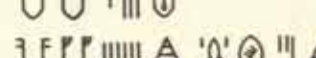
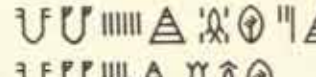
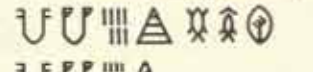
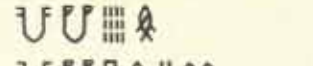
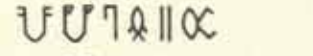
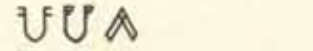
20 
2125 00 
2213 00 
1066 00 
2396 00 
1415 00 
3161 00 
4030 00 
1408 00 
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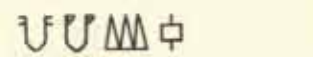
1715 00 
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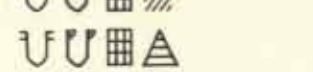
1712 10 
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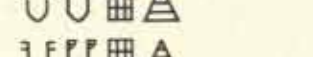
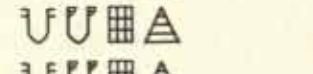
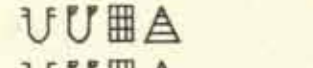
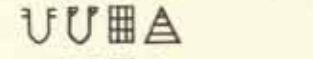
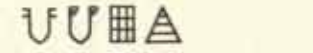
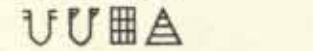
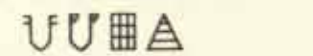
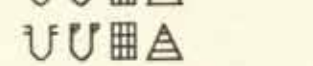
1806 10 
2909 10 
2915 10 
3306 10 
3314 10 
3339 10 
3341 10 
3342 10 
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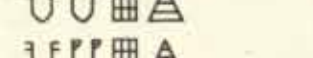
3361 10 
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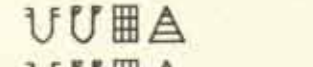
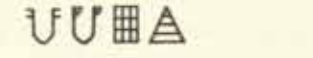
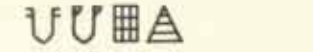
3379 10 
3386 10 
3403 10 

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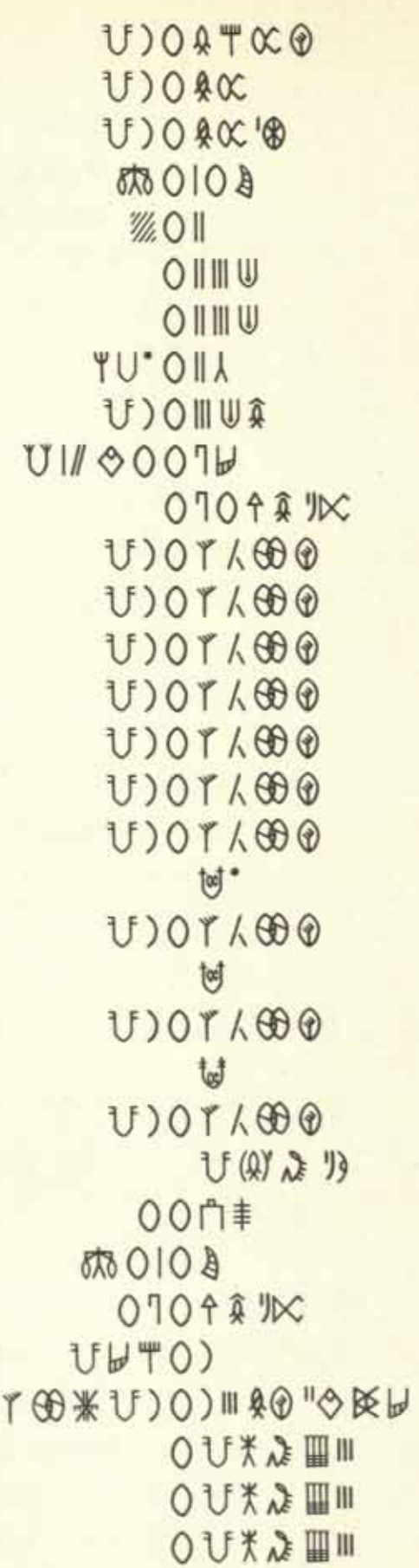

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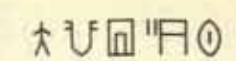
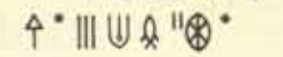
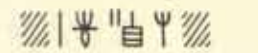
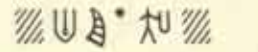
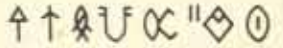
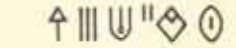
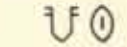
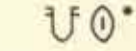
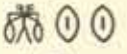
8101 10 
20 
30 
40 
2539 00 
4083 00 
1236 00 
5001 00 
4607 10 
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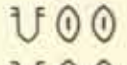
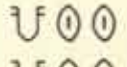
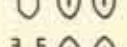
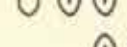
2582 00 
2937 00 
3244 00 
5341 00 
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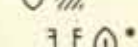
20 
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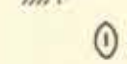
20 
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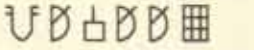
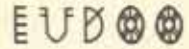
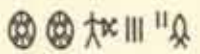
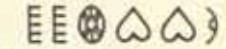
20 
2940 00 
2434 00 
2043 00 
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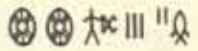
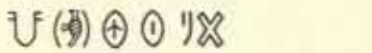
2434 00 

4272 00 

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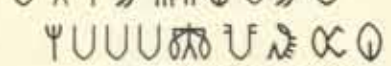
2847 10 
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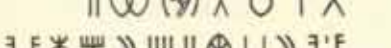
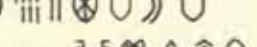
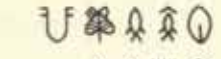
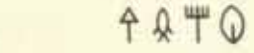
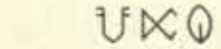
30 
2232 00 
3145 00 
3504 00 
2568 00 
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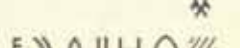
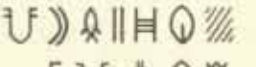
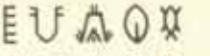
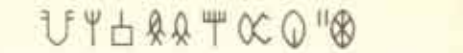
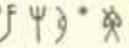
2946 00 
2947 00 
2865 10 

2335 00 
2418 00 

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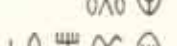
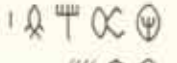
2231 00 
5110 00 
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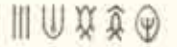
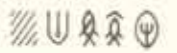
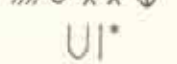
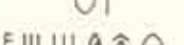
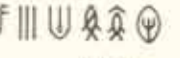
4667 10 
20 
4358 10 
20 
1147 00 
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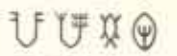
2378 00 
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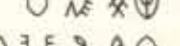
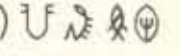
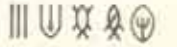
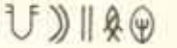
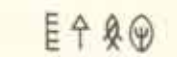
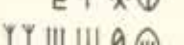
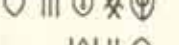
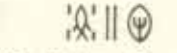
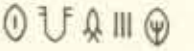
4657 00 
1173 00 
2655 00 
2211 00 
3246 10 
3501 00 
5081 00 
4015 00 
1622 00 
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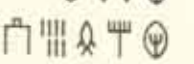
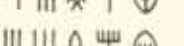
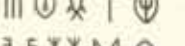
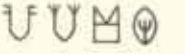
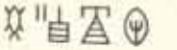
3153 00 
1224 00 
1217 00 
3152 00 
1620 10 

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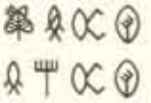
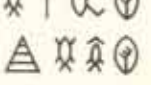
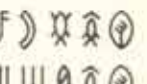
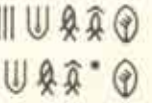
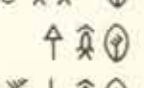
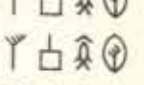


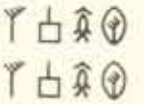


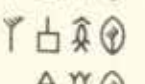


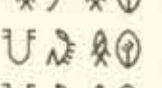


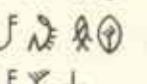


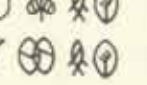


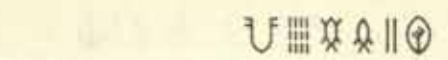
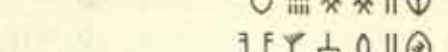
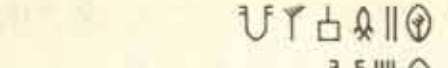










2227 00 
2046 00 
4279 00 
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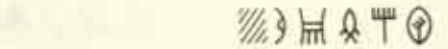
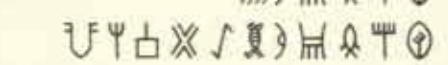
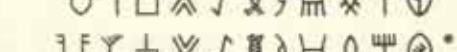
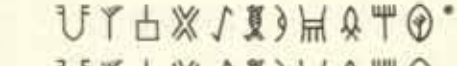
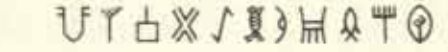
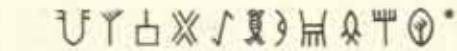
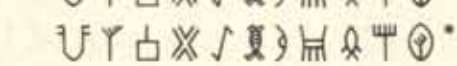
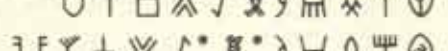
5253 10 
4334 10 
4335 10 
4336 10 
5205 10 
5227 10 
5229 10 
5230 10 
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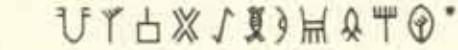
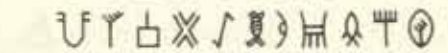
5256 10 
4254 00 
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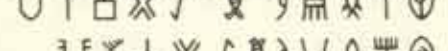
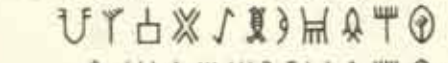
4298 00 
2506 00 
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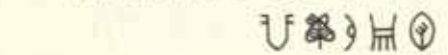
2006 00 
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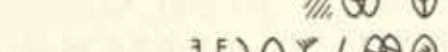
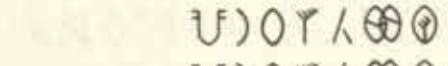
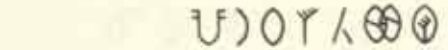
3387 10 
7092 00 
4027 00 

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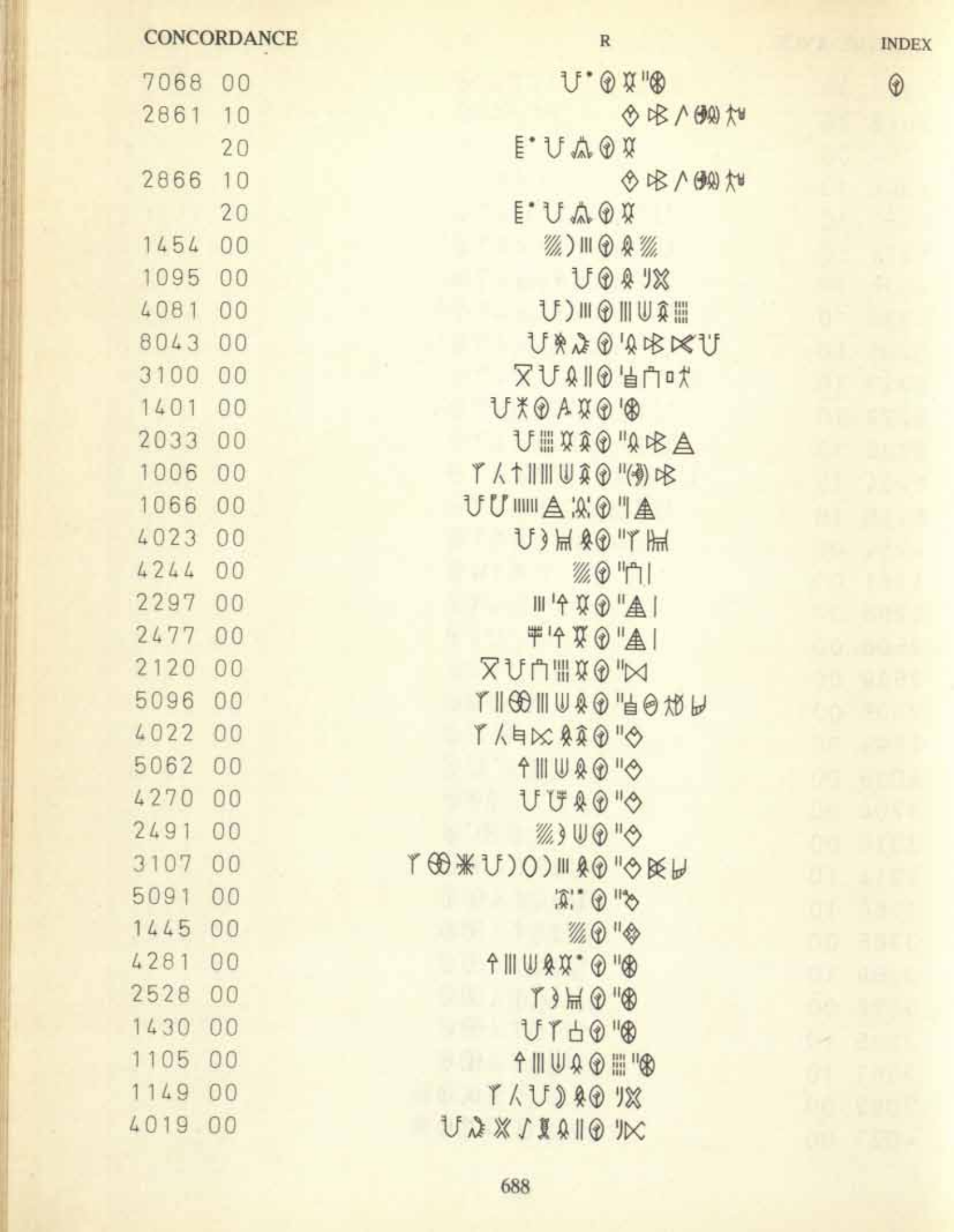

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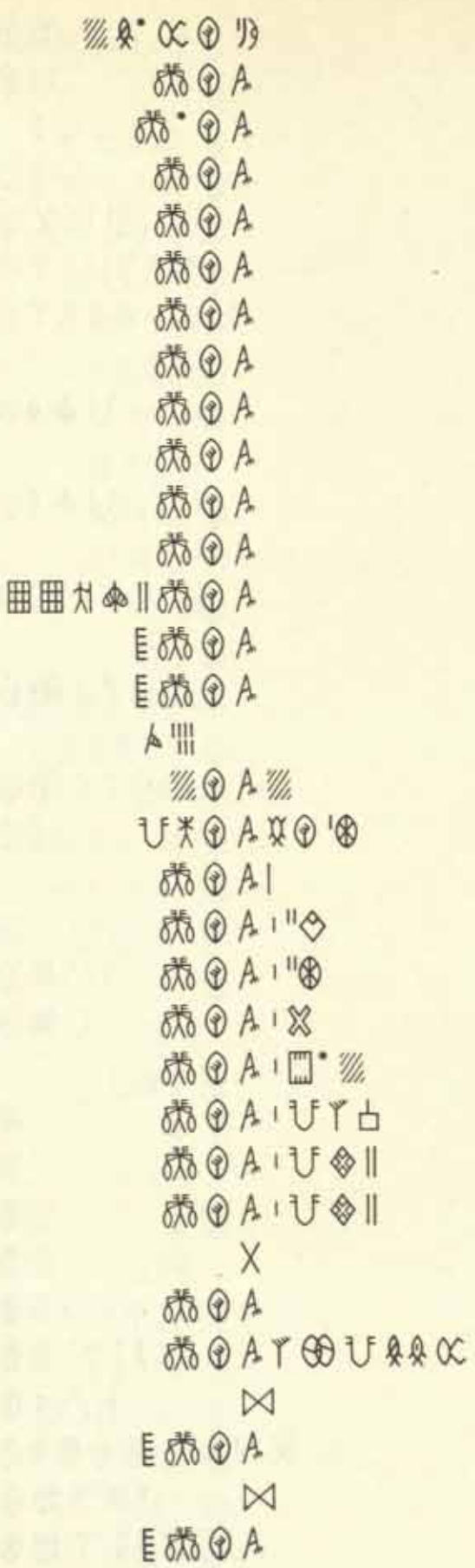

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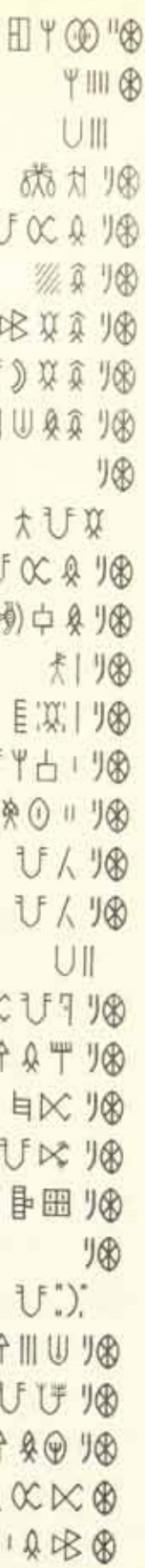

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2692 00
4303 10
2160 00
2923 10
20
2925 10
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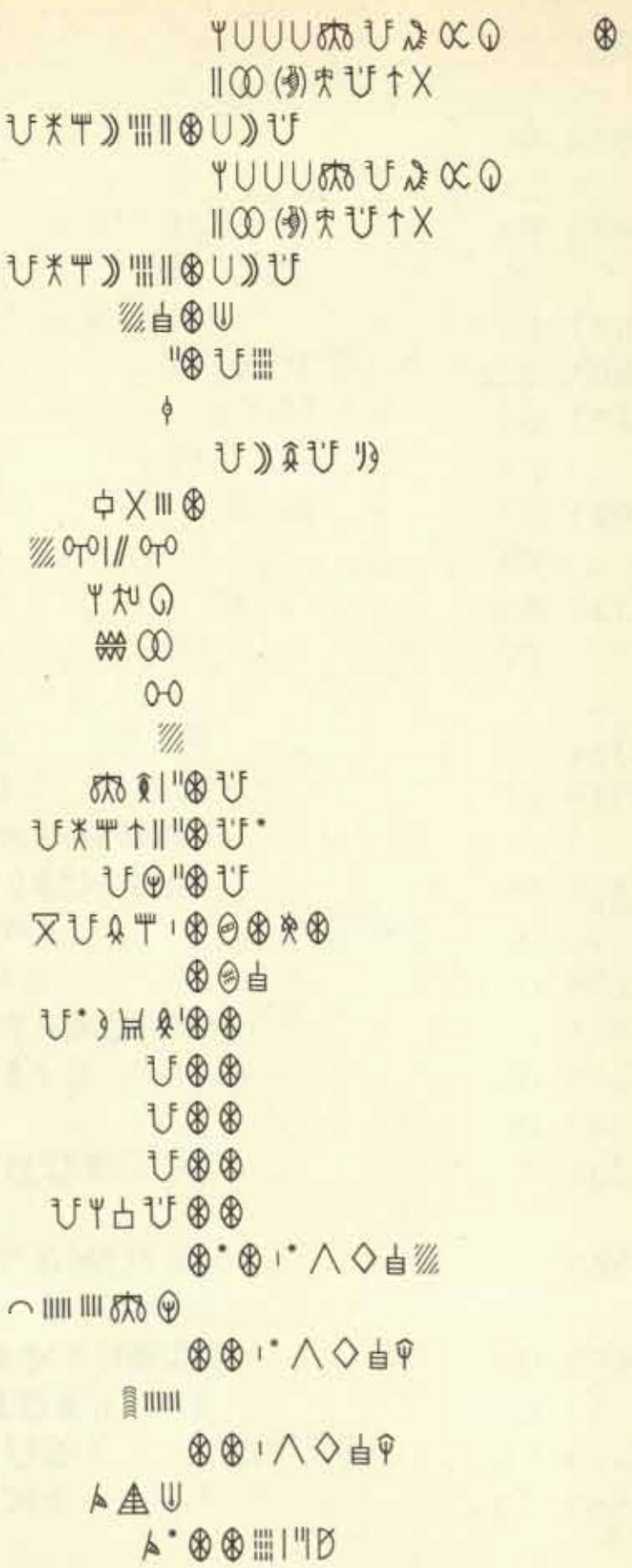
2119 01
02
2427 00



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3080 01

02

1016 01

02

4902 00

4901 00

2431 01

02

1001 01

02

1332 01

02

1394 00

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1330 00

5070 00

2206 00

1151 00

2109 00

1203 00

8038 00

1058 00

1553 00

1067 00

2443 00

1559 00

2804 10
20
5327 10
20
2597 01
02
3031 00
1017 00
2599 00
1055 00
3155 01
02
2804 10
20

2283 00
2362 00
2129 00
2701 00
3108 01
02
4229 00
2190 00

2584 00

1211 00
2617 00
7063 00
1058 00
2597 01
02

1012 01
02
1395 00
4103 00
9221 00
1052 01
02
1139 01
02
1265 00
2178 00
1315 00

6123 00

7277 10
20
30
8006 00
7065 00
4304 10
20
5086 00
5034 00
2686 00
2309 00
5109 00
4304 10
20
2105 00
2475 00
8120 00
5074 00

1036 00
1008 00
4156 00
2556 00
6125 00
4227 00
2152 00
4686 10
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2689 01
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2855 10
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2851 10
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1029 00
4319 10
4276 10
20
2702 00
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02
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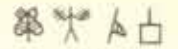
7081 00
1069 00
2119 01
02

4498	10	
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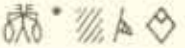
1297	00	
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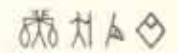
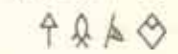
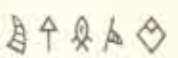
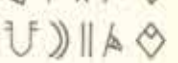
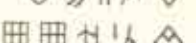
2304	00	
1103	00	
2393	00	
2706	00	
3318	11	
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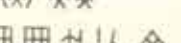
3415	11	
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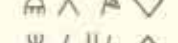
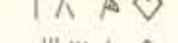
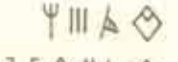
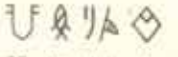
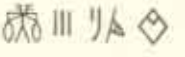
7005	00	
4085	00	
2419	00	
2635	00	
4427	10	
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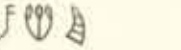
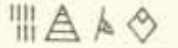
	20	
4454	10	
	20	
2007	00	
4460	10	
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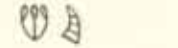
4535	10	
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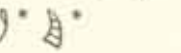
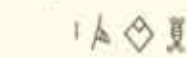
1067	00	
4586	10	
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	30	

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5102 00
2356 00
8006 00
2656 00
4477 10
20
4485 10
20
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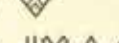
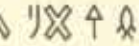
8020 01
02
4630 00
3031 00
4359 10
20
5410 10
20
4502 10
20
5436 10
20
5418 10
20
1185 00
1108 00
1186 00
2455 00
2373 01
02
2169 00
2347 00

2522 00

2398 01 

02 

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2464 00

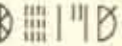
2427 00

1394 00

2206 00

2701 00

4103 00

1265 00 

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5103 00

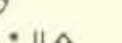
2204 00

2939 00

2114 00

7097 00

5474 10

20 

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4678 10

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20

2406 00

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2299 00
3507 00
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20
1381 00
1099 01
02
1628 10
20
2844 10
20
1369 00
2252 00
4263 00
6306 10
20
1077 00
1629 10
2863 10
7021 00
4271 00
1431 00
5084 00
1623 10
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2847 10
20
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1205 00

1605 10
1608 10
1552 00
5487 00
5507 00
1541 00
6229 00
2246 00
5441 10
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4420 10
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4477 10
20
1257 00
1366 00
4629 00
5470 00
7035 00
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4564 10
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5452 10
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4555 10
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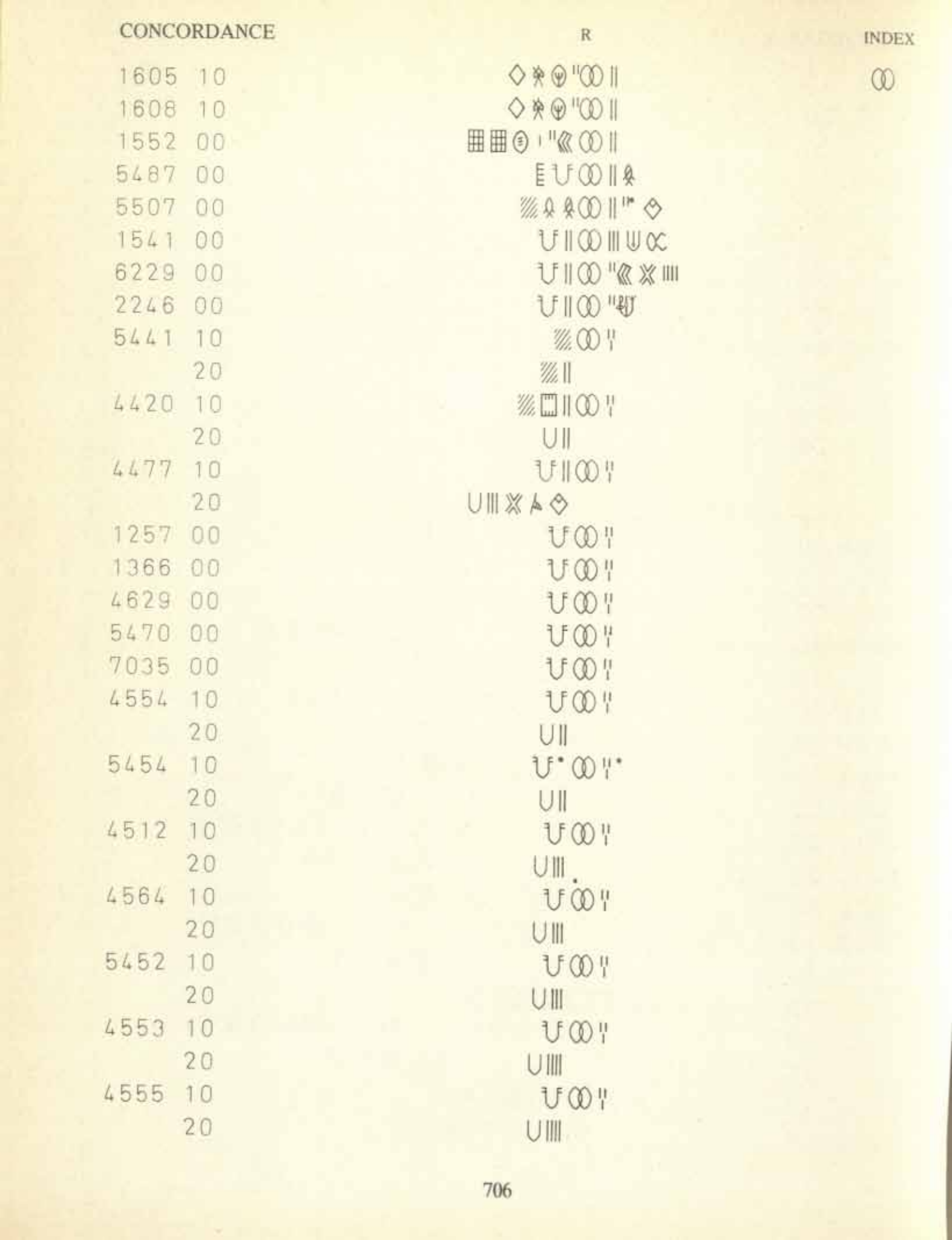

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4651 10
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4363 10
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5250 10
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4138 00
1529 00
1530 00
3039 00
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02
2481 00
8039 00
4427 10
20
4658 10
20
2405 10
21
22
30
40
50
60
4353 10
20
9822 00
2596 00
2178 00

1227 10
20
4337 10
5305 10
1146 00
2141 00
3506 00
2363 00
2486 00
6403 01
02
7207 00
4306 10
20
1215 00
2115 00
1536 00
4080 00
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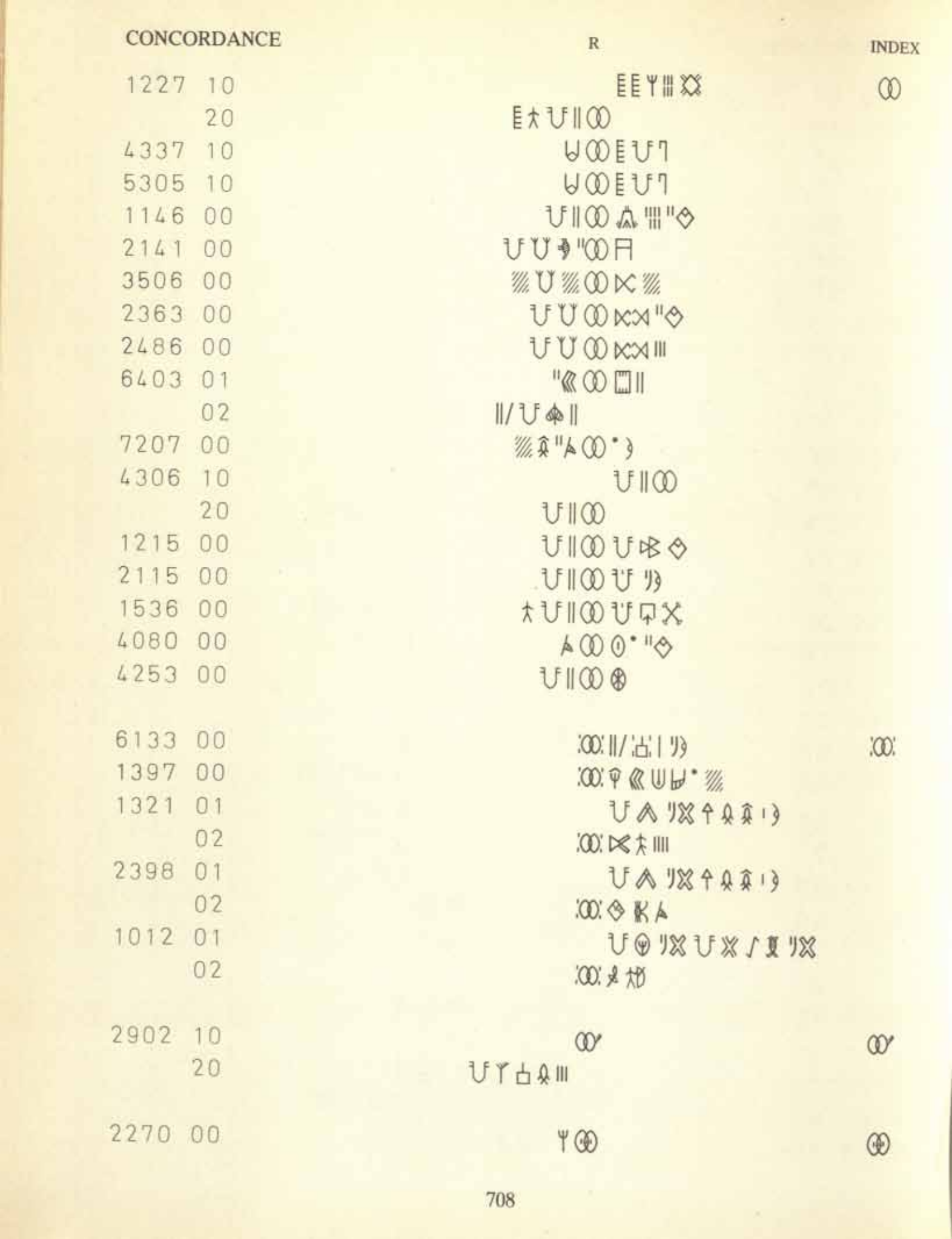
02
2398 01
02
1012 01
02

2902 10
20

2270 00



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3087 00
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2145 00
1080 00
2147 00
2336 00
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7006 00
2443 00
3511 00

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1409 00
1805 10
3350 10
3352 10
1458 00
2904 11
12
5061 00
1403 00
1709 10
2910 10
3322 10
3332 10
3372 10
3374 10

1467 00
3326 10
1705 10
1706 10
3304 10
3312 10
3331 10
3337 00
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3355 10
3381 10
3384 10
5096 00
3107 00
3510 00
7007 00
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3310 00
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3358 10
3365 00
3369 10
3376 00
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3387 10
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3315 10
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3414 10
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2405 10
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2857 10
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1037 00
4483 10
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5269 10
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3035 00
1303 01
02

1325 11
12
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2405 10
21
22
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40
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60
2179 00
2155 00
2404 00
4621 00
2581 00
7048 10
20
30
40
50
3022 00
2405 10
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30
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4449 10
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4450 10
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4573 10
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2620 00

4691 10
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5092 00

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4052 00
1174 00
4118 00

4280 00

9101 00

3089 00
2601 01
02
1252 10
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4286 00
7093 00
2445 00
2111 00
2475 00
1252 10
20

4181 00

4473 10

20

8047 00

4034 00

2019 00

4630 00

2827 10

20

Tables

TABLE I
FREQUENCY AND POSITIONAL DISTRIBUTION OF SIGNS

SIGN	SOL	INI	MED	FIN	TOT	SIGN	SOL	INI	MED	FIN	TOT
	3	12	33	86	134		0	0	1	0	1
	0	7	14	0	21		0	2	0	0	2
	0	2	3	1	6		0	3	1	0	4
	0	1	0	1	2		0	0	2	0	2
	0	0	0	2	2		0	1	0	0	1
	0	4	1	0	5		1	1	3	1	6
	3	3	1	1	8		0	0	1	0	1
	0	2	103	0	105		3	5	2	4	14
	0	2	10	0	12		0	14	6	0	20
	0	0	5	1	6		0	1	0	0	1
	0	1	1	0	2		0	1	1	0	2
	1	1	9	69	80		2	0	0	0	2
	0	0	0	1	1		0	3	0	1	4
	0	0	2	11	13		0	0	0	1	1
	3	1	30	92	126		1	5	10	0	16
	0	1	0	0	1		0	74	93	1	168
	0	38	49	4	91		0	0	2	0	2
	0	7	20	0	27		0	5	3	0	8
	0	0	7	1	8		1	25	75	4	105
	0	1	0	0	1		0	0	0	1	1
	0	0	2	0	2		0	32	96	2	130
	0	1	2	0	3		0	9	9	1	19
	0	1	0	0	1		0	1	3	0	4
	0	0	1	1	2		0	2	4	2	8
	0	10	38	5	53		0	2	4	1	7
	0	1	0	0	1		0	0	7	0	7
	0	2	0	0	2		18	36	309	18	381
	0	17	28	5	50		1	2	5	21	29
	0	2	0	1	3		0	0	1	0	1
	0	1	0	1	2		0	0	13	0	13
	2	0	0	0	2		8	0	2	0	10
	0	2	8	1	11		0	0	2	0	2

(Contd.)

SIGN	SOL	INI	MED	FIN	TOT
	1	77	137	1	216
	1	3	5	10	19
	2	68	209	0	279
	0	0	2	7	9
	2	1	1	0	4
	0	17	55	1	73
	0	0	2	5	7
	0	40	148	0	188
	1	4	0	3	8
	0	0	2	0	2
	0	4	8	1	13
	0	10	5	0	15
	0	1	1	0	2
	0	1	7	0	8
	0	1	0	0	1
	0	3	1	0	4
	0	0	19	5	24
	0	0	1	0	1
	0	1	2	1	4
	0	5	3	0	8
	1	0	0	0	1
	1	67	70	11	149
	1	147	199	18	365
	1	0	0	0	1
	1	140	159	14	314
	0	2	0	0	2
	0	0	0	2	2
	0	1	0	0	1
	5	0	1	5	11
	0	2	7	2	11
	0	59	5	0	64
	1	2	13	6	22

SIGN	SOL	INI	MED	FIN	TOT
	0	1	87	3	91
	0	4	72	12	88
	0	2	625	22	649
	1	12	16	0	29
	0	1	0	0	1
	7	71	70	3	151
	2	22	6	0	30
	1	31	35	3	70
	0	0	2	0	2
	1	18	18	1	38
	0	2	1	3	6
	0	2	1	0	3
	1	20	17	0	38
	2	0	3	1	6
	0	2	2	0	4
	0	16	54	0	70
	0	0	16	1	17
	0	3	4	0	7
	1	0	0	0	1
	0	1	1	0	2
	0	1	0	0	1
	1	0	0	0	1
	0	13	0	0	13
	0	2	0	0	2
	0	11	58	1	70
	0	1	0	0	1
	0	0	186	7	193
	0	19	59	0	78
	0	0	17	1	18
	0	1	2	1	4
	7	7	32	4	50
	0	0	8	0	8

(Contd.)

TABLE I : FREQUENCY AND POSITIONAL DISTRIBUTION OF SIGNS

SIGN	SOL	INI	MED	FIN	TOT	SIGN	SOL	INI	MED	FIN	TOT
	0	2	3	0	5		0	1	1	2	4
	0	0	58	5	63		3	10	109	90	212
	0	1	0	0	1		0	2	1	2	5
	0	0	2	1	3		0	1	0	0	1
	0	1	0	0	1		1	0	0	0	1
	0	2	12	0	14		0	0	0	1	1
	0	3	31	1	35		1	1	4	1	7
	0	5	10	0	15		0	0	0	1	1
	2	3	14	4	23		1	3	106	130	240
	0	2	0	2	4		0	1	0	0	1
	1	1	0	13	15		0	37	92	3	132
	0	0	1	1	2		0	1	7	0	8
	0	1	2	1	4		0	24	9	5	38
	0	7	0	0	7		0	0	7	4	11
	0	2	0	0	2		1	21	27	5	54
	1	0	0	0	1		1	0	38	316	355
	0	0	1	0	1		1	16	2	2	21
	1	2	0	0	3		0	18	17	0	35
	0	1	0	0	1		0	1	0	0	1
	0	0	1	0	1		0	2	35	7	44
	2	5	65	20	92		0	1	1	0	2
	0	51	11	1	63		0	15	25	3	43
	0	1	0	0	1		0	1	10	[illegible]	11
	0	1	0	0	1		2	1	3	0	6
	0	9	16	1	26		0	0	1	0	1
	0	1	0	0	1		0	15	15	3	33
	0	5	44	0	49		0	0	3	0	3
	0	0	0	1	1		0	1	2	0	3
	0	0	1	0	1		0	0	4	0	4
	1	0	3	0	4		0	1	5	16	22
	0	1	1	0	2		0	1	0	0	1
	0	2	4	0	6		0	2	19	0	21

(Contd.)

SIGN	SOL	INI	MED	FIN	TOT
	0	2	23	0	25
	0	3	53	2	58
	0	1	3	0	4
	0	1	0	0	1
	1	22	36	1	60
	0	2	2	0	4
	0	2	0	0	2
	0	1	0	0	1
	0	7	2	0	9
	0	5	3	1	9
	0	2	0	0	2
	0	50	25	1	76
	0	18	8	0	26
	0	0	5	2	7
	0	0	0	1	1
	0	1	0	0	1
	0	1	23	0	24
	0	17	4	1	22
	1	0	42	184	227
	0	2	3	1	6
	1	0	1	0	2
	4	5	6	1	16
	0	10	0	0	10
	2	36	49	3	90
	0	4	6	0	10
	0	1	0	0	1
	2	5	4	0	11
	0	0	1	0	1
	0	4	0	0	4
	0	2	20	0	22
	0	2	3	1	6
	2	1	2	9	14

SIGN	SOL	INI	MED	FIN	TOT
	0	1	3	0	4
	0	3	8	0	11
	0	0	1	0	1
	0	2	3	0	5
	0	1	4	0	5
	0	3	45	6	54
	0	0	0	1	1
	0	0	0	1	1
	0	5	22	2	29
	0	5	2	0	7
	1	0	0	0	1
	0	0	1	0	1
	0	2	6	0	8
	0	4	0	0	4
	0	1	0	0	1
	0	1	2	0	3
	0	1	0	0	1
	9	3	0	14	26
	0	1	0	0	1
	0	26	63	0	89
	0	28	136	43	207
	0	1	0	0	1
	0	1	7	0	8
	0	1	0	0	1
	1	35	128	6	170
	1	3	5	4	13
	0	0	1	0	1
	0	2	33	16	51
	0	10	9	2	21
	0	3	9	61	73
	0	1	0	0	1
	0	1	3	0	4

(Contd.)

TABLE I : FREQUENCY AND POSITIONAL DISTRIBUTION OF SIGNS

SIGN	SOL	INI	MED	FIN	TOT
	0	0	2	0	2
	0	12	8	0	20
	0	0	3	0	3
	0	0	1	0	1
	0	9	14	4	27
	0	0	0	1	1
	0	6	1	0	7
	0	10	1	0	11
	0	1	0	0	1
	1	0	0	0	1
	1	298	62	15	376
	0	0	4	0	4
	1	0	0	0	1
	0	1	0	0	1
	0	1	0	0	1
	0	1	0	2	3
	0	0	1	0	1
	0	0	0	1	1
	0	0	0	5	5
	0	1	0	1	2
	0	0	4	7	11
	0	1	0	1	2
	0	0	1	0	1
	0	1	0	1	2
	0	1	0	0	1
	0	0	0	3	3
	0	1	0	3	4
	0	18	11	12	41
	0	1	0	0	1
	0	13	2	0	15
	0	17	69	2	88
	0	0	1	0	1
	0	2	3	0	5
	0	2	1	0	3
	0	1	0	0	1
	0	6	2	0	8
	0	72	61	3	136
	0	4	49	0	53
	0	9	0	0	9
	0	4	31	0	35
	0	1	4	1	6
	0	2	2	0	4
	0	0	1	0	1
	0	1	0	0	1
	0	4	9	0	13
	0	2	9	2	13
	0	3	6	2	11
	0	0	11	0	11
	0	3	0	0	3
	0	1	0	0	1
	1	15	36	17	69
	0	0	1	0	1
	0	0	2	0	2
	0	0	1	0	1
	0	3	0	0	3
	0	1	0	1	2
	1	1	0	0	2
	0	0	1	0	1
	0	0	0	1	1
	0	0	0	1	1
	0	1	0	0	1
	0	0	0	1	1
	0	6	12	9	27
	0	1	0	0	1

(Contd.)

SIGN	SOL	INI	MED	FIN	TOT
	0	0	1	12	13
	0	0	4	0	4
	0	3	7	0	10
	0	0	2	0	2
	0	5	8	0	13
	7	7	20	1	35
	0	12	29	1	42
	1	19	29	274	323
	0	2	5	0	7
	0	5	3	0	8
	0	3	2	0	5
	0	0	2	1	3
	0	1	2	0	3
	0	1	2	1	4
	0	2	0	0	2
	1	65	168	2	236
	0	5	0	0	5
	0	0	3	0	3
	0	0	0	1	1
	0	1	2	2	5
	0	11	45	3	59
	3	1	420	971	1395
	0	20	152	5	177
	3	4	26	2	35
	0	25	24	2	51
	2	0	0	0	2
	0	1	116	1	118
	1	1	20	0	22
	0	0	1	0	1
	0	1	0	0	1
	0	1	0	0	1
	0	0	1	0	1

SIGN	SOL	INI	MED	FIN	TOT
	0	1	0	0	1
	0	1	0	0	1
	0	2	0	0	2
	0	0	1	0	1
	0	0	1	0	1
	0	0	32	0	32
	0	0	2	0	2
	0	0	1	0	1
	0	1	0	0	1
	2	0	0	0	2
	3	0	0	0	3
	1	1	1	0	3
	0	3	1	0	4
	0	1	0	0	1
	0	0	5	3	8
	0	0	2	0	2
	0	0	2	0	2
	0	0	1	0	1
	0	1	2	0	3
	0	1	0	0	1
	0	19	29	13	61
	9	0	0	0	9
	0	14	31	12	57
	0	1	1	0	2
	1	0	0	0	1
	0	1	1	0	2
	0	11	6	0	17
	0	0	5	0	5
	0	0	13	1	14
	0	0	1	0	1
	0	1	0	0	1
	1	2	3	1	7

(Contd.)

TABLE 1: FREQUENCY AND POSITIONAL DISTRIBUTION OF SIGNS

SIGN	SOL	INI	MED	FIN	TOT	SIGN	SOL	INI	MED	FIN	TOT
	0	0	1	0	1		1	7	61	30	99
	0	6	6	0	12		2	16	74	1	93
	0	30	72	0	102		0	0	0	5	5
	0	0	4	4	8		1	0	0	0	1
	0	65	69	0	134		0	2	10	1	13
	0	0	2	1	3		0	0	47	1	48
	3	135	41	16	195		1	0	0	0	1
	1	0	0	0	1		1	14	11	0	26
	5	0	0	2	7		0	0	0	1	1
	0	1	1	0	2		0	1	0	0	1
	0	3	3	1	7		0	4	0	0	4
	0	0	1	0	1		0	0	0	1	1
	1	9	3	0	13		0	0	1	0	1
	0	5	2	0	7		0	4	3	2	9
	0	1	0	0	1		0	2	0	0	2
	0	5	8	1	14		1	4	0	0	5
	0	0	0	1	1	TOT	190	3010	7196	2976	13372

NOTES:

1. Abbreviations: SOL: Solus; INI: Initial; MED: Medial; FIN: Final; TOT: Total
2. Frequency and positional distribution of signs are tabulated with reference to a line of text as the unit.

TABLE II
FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	14		1		1		4
	7		93		1		3
	1		1		1		1
	1		3		1		3
	1		1		3		1
	6		1		1		11
	2		2		1		1
	1		1		1		1
	2		6		1		6
	1		2		2		1
	1		2		2		1
	1		1		3		1
	1		1		1		1
	1		1		1		3
	11		1		1		1
	3		1		1		1
	1		1		3		1
	5		3		1		1
	1		1		1		1
	1		1		6		1
	1		2		1		1
	1		2		14		1
	1		1		1		1
	1		1		1		1
	1		26		1		4
	1		1		7		1
	1		1		3		1
	2		1		1		1
	3		1		2		8
	1		6		1		25
	1		1		1		6
	1		2		1		1

(*Contd.*)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		2		3		1
	1		1		1		1
	1		1		2		1
	2		1		1		1
	2		1		2		2
	2		2		15		3
	1		2		1		1
	10		1		4		58
	3		1		2		5
	1		1		1		1
	1		1		3		1
	1		1		1		1
	1		2		1		1
	1		1		1		2
	2		1		1		3
	2		1		1		1
	2		1		6		13
	1		4		1		1
	1		1		1		1
	1		1		1		1
	1		9		1		4
	2		1		2		2
	2		1		114		2
	2		3		3		16
	1		2		1		4
	1		2		1		7
	1		1		1		5
	1		1		1		1
	1		3		1		4
	1		2		1		1
	1		1		2		4
	2		1		1		1

(*Contd.*)

PAIR	FREQ
	22
	1
	1
	1
	1
	1
	2
	40
	1
	1
	1
	1
	1
	1
	2
	1
	2
	1
	3
	1
	2
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1

PAIR	FREQ
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	2
	1
	1
	4
	2
	2
	1
	1
	1
	11
	5
	6
	7
	4
	1
	11
	4
	2
	7
	1

PAIR	FREQ
	1
	3
	1
	3
	3
	13
	5
	4
	3
	9
	1
	6
	2
	1
	1
	14
	2
	3
	1
	55
	1
	1
	1
	7
	1
	1
	5
	5
	1
	5
	1

PAIR	FREQ
	11
	5
	44
	6
	1
	1
	1
	1
	4
	1
	2
	1
	1
	2
	1
	2
	7
	1
	1
	3
	1
	1
	1
	12
	2
	2
	1
	3
	1
	1
	4

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	14		20		1		2
	2		1		1		1
	44		1		2		3
	1		6		2		6
	6		3		5		1
	1		1		3		6
	24		2		11		1
	4		1		2		1
	1		3		1		1
	1		1		6		1
	5		1		2		1
	1		1		1		2
	1		3		1		1
	2		2		4		5
	1		1		1		1
	1		1		26		7
	1		11		4		1
	1		4		1		1
	1		1		2		1
	5		3		32		3
	1		5		1		1
	6		3		1		1
	1		5		5		1
	1		2		4		10
	2		4		1		2
	18		1		11		2
	1		8		21		1
	2		28		1		1
	1		1		8		1
	1		3		1		3
	1		1		1		8

(*Contd.*)

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	3		1		4		4
	2		1		1		4
	1		6		1		1
	1		1		1		2
	1		1		3		1
	2		3		1		1
	1		2		1		1
	1		24		1		1
	2		9		4		1
	1		1		1		1
	1		4		1		1
	2		1		1		1
	10		1		1		1
	1		1		1		1
	3		1		1		2
	4		6		1		2
	4		1		1		1
	4		1		1		1
	1		2		1		1
	3		1		5		1
	1		6		1		12
	2		2		1		1
	3		1		1		1
	1		21		1		1
	1		2		5		1
	2		10		1		1
	1		1		1		5
	2		2		1		2
	1		3		1		5
	1		3		1		1
	1		4		1		1
	2		1		5		2

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		3		1		1
	2		2		10		2
	10		2		1		1
	1		7		2		2
	1		6		1		1
	1		2		1		2
	1		2		1		2
	3		1		11		1
	5		1		12		7
	1		1		1		7
	2		1		2		1
	1		1		4		2
	2		2		1		1
	3		2		1		4
	2		2		12		2
	2		3		7		2
	1		1		1		1
	3		1		3		1
	2		1		1		1
	1		1		5		1
	1		1		78		1
	1		1		1		3
	1		67		1		1
	1		13		2		44
	2		4		42		4
	3		1		2		1
	1		1		1		1
	1		2		1		2
	2		2		4		6
	1		1		2		1
	1		8		6		2
	1		6		1		11

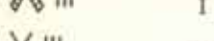
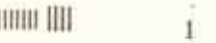
(*Contd.*)

PAIR	FREQ
	1
	124
	1
	1
	3
	1
	4
	1
	1
	3
	4
	2
	1
	2
	1
	1
	2
	1
	1
	1

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	2		7		1		1
	1		1		1		7
	4		8		1		1
	3		12		1		1
	3		1		6		2
	17		5		3		1
	5		12		1		1
	16		2		3		1
	2		1		2		2
	16		4		1		1
	2		5		1		1
	40		1		1		2
	6		1		1		1
	65		12		2		1
	2		7		1		1
	17		4		1		1
	19		3		12		1
	1		10		1		1
	2		1		4		2
	1		2		1		1
	1		3		3		1
	15		1		1		18
	43		1		1		6
	1		1		5		6
	15		6		2		2
	2		2		2		1
	24		1		29		1
	1		1		19		1
	17		1		1		20
	1		2		2		2
	8		1		1		1
	1		1		1		1

(*Contd.*)

PAIR	FREQ
	1
	3
	20
	7
	20
	6
	1
	16
	1
	1
	1
	27
	2
	1
	4
	1
	1
	1
	3
	21
	24
	1
	1
	1
	2
	2
	1
	1
	3
	1
	1
	5

PAIR	FREQ
	11
	1
	10
	1
	1
	1
	1
	1
	1
	1
	1
	16
	1
	1
	10
	2
	1
	3
	1
	1
	3
	3
	1
	3
	7
	27
	14
	2
	1
	11
	2

PAIR	FREQ
	1
	1
	15
	2
	1
	2
	1
	1
	1
	1
	12
	1
	1
	1
	2
	3
	1
	9
	2
	1
	2
	8
	9
	2
	1
	1
	1
	2
	14
	1

PAIR	FREQ
	1
	1
	1
	1
	1
	1
	1
	1
	4
	5
	3
	2
	11
	11
	5
	5
	1
	8
	9
	1
	5
	1
	7
	4
	1
	1
	2
	3
	1
	1
	2

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		1		2		23
	5		1		7		5
	3		1		1		1
	1		30		2		1
	1		1		1		1
	1		1		1		9
	1		16		6		1
	1		1		1		1
	2		4		2		2
	1		13		1		1
	1		1		1		1
	1		1		8		1
	1		1		1		2
	1		1		1		1
	1		1		1		9
	1		1		1		1
	1		1		1		1
	3		1		39		1
	3		1		2		2
	30		1		1		1
	8		2		1		1
	4		1		1		1
	1		1		1		1
	1		2		1		1
	5		1		1		5
	3		1		1		2
	1		1		7		1
	1		2		1		1
	6		1		4		1
	10		9		1		1
	1		2		1		1
	2		1		1		1

(*Contd.*)

PAIR	FREQ
	1
	1
	1
	1
	1
	3
	1
	1
	1
	2
	1
	10
	1
	1
	44
	1
	1
	1
	44
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	2
	1
	10

PAIR	FREQ
	1
	2
	1
	1
	1
	4
	2
	1
	1
	1
	1
	2
	4
	1
	19
	1
	2
	1
	4
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1

PAIR	FREQ
	3
	1
	1
	1
	2
	5
	1
	1
	2
	1
	1
	9
	4
	2
	1
	8
	4
	1
	3
	1
	3
	1
	1
	3
	40
	13
	3
	1
	5
	2
	1
	1
	1

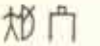
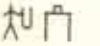
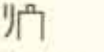
PAIR	FREQ
	1
	1
	1
	1
	1
	1
	1
	1
	1
	18
	1
	1
	2
	1
	10
	1
	1
	1
	48
	1
	2
	10
	1
	1
	40
	76
	4
	1
	1
	2
	1
	1

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		1		1		1
	7		2		1		1
	1		2		1		3
	3		1		3		1
	1		1		1		1
	7		9		1		1
	2		8		1		1
	1		1		1		1
	3		10		1		1
	1		1		1		1
	1		2		5		2
	2		1		1		4
	1		1		30		5
	5		8		1		1
	4		8		11		1
	1		1		1		1
	1		1		1		5
	1		1		2		4
	1		1		1		1
	1		1		1		8
	2		1		1		1
	2		29		1		2
	2		1		1		1
	1		1		2		1
	1		1		1		21
	7		1		1		2
	11		2		1		7
	1		18		1		1
	2		1		1		1
	3		1		2		6
	16		1		6		2
	1		1		2		1

(Contd.)

PAIR	FREQ
	1
	3
	1
	27
	1
	1
	3
	1
	2
	1
	1
	5
	1
	2
	1
	1
	6
	2
	5
	1
	1
	3
	14
	2
	1
	1
	2
	2
	2

PAIR	FREQ
	1
	1
	4
	1
	3
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	2
	1
	3
	11
	1
	2
	1
	1
	12
	1
	1
	31
	1
	1
	1
	2

PAIR	FREQ
	1
	2
	1
	1
	1
	3
	1
	2
	5
	1
	1
	4
	1
	1
	1
	2
	1
	1
	1
	1
	1
	1
	16
	1
	1
	1
	2
	15
	1
	1
	1

PAIR	FREQ
	1
	1
	8
	1
	3
	1
	1
	1
	2
	11
	1
	1
	1
	1
	4
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	2
	1
	1
	4
	2
	1

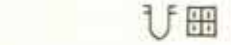
(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		1		1		1
	1		1		3		1
	1		2		1		1
	1		2		13		1
	2		1		1		1
	1		1		1		2
	1		22		2		1
	1		1		1		3
	1		1		1		4
	2		1		8		2
	1		2		1		1
	23		1		1		3
	1		1		1		2
	1		1		1		1
	1		1		1		1
	1		1		2		6
	7		1		1		2
	29		7		8		1
	2		3		1		1
	3		1		1		2
	1		1		1		1
	1		4		1		1
	1		1		1		1
	1		1		2		3
	2		1		1		1
	1		1		1		1
	1		1		2		4
	1		1		1		1
	2		1		1		1
	1		1		1		1
	1		1		2		1
	1		1		1		4
	2		1		1		34
	1		14		2		3
	1		1		1		2
	2		1		4		1
	1		4		1		1

(Contd.)

PAIR	FREQ
	1
	2
	1
	1
	1
	1
	6
	1
	3
	1
	1
	1
	1
	1
	1
	1
	70
	1
	1
	1
	6
	1
	1
	2
	18
	3
	3
	1
	3
	21
	1
	1

PAIR	FREQ
	1
	1
	4
	1
	1
	1
	1
	1
	1
	9
	3
	2
	1
	54
	2
	47
	1
	2
	1
	1
	1
	5
	1
	7
	3
	4
	1
	1
	1
	3
	1

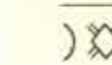
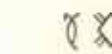
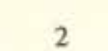
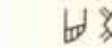
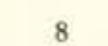
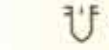
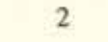
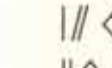
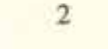
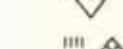
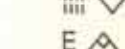
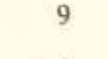
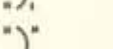
PAIR	FREQ
	1
	2
	1
	1
	13
	7
	1
	1
	1
	1
	3
	1
	1
	4
	1
	1
	14
	1
	1
	1
	1
	1
	1
	1
	1
	4
	1
	1
	1
	1

PAIR	FREQ
	1
	1
	2
	1
	1
	1
	1
	17
	2
	1
	1
	4
	1
	2
	5
	1
	1
	3
	1
	1
	1
	1
	1
	1
	4
	1
	1
	1
	1
	1

PAIR	FREQ
	1
	1
	2
	1
	1
	1
	1
	2
	1
	1
	4
	1
	1
	1
	3
	1
	1
	1
	1
	1
	1
	1
	4
	1
	1
	1
	1
	1
	1
	1

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		1		8		1
	1		2		1		2
	1		8		2		1
	1		1		37		2
	1		1		2		4
	1		2		1		1
	4		1		1		2
	2		2		5		1
	291		1		1		2
	1		9		4		1
	1		1		1		1
	1		1		1		4
	1		1		1		1
	1		1		1		1
	2		1		1		1
	11		10		7		14
	4		1		1		1
	32		1		1		1
	1		2		11		2
	2		1		1		1
	1		1		1		2
	1		4		1		4
	1		3		1		1
	1		3		1		1
	1		1		1		1
	1		3		1		2
	2		1		2		1
	2		1		7		1
	1		1		1		2
	1		1		54		2
	1		1		1		28
	1		2		2		6

(Contd.)

PAIR	FREQ
	6
	2
	1
	1
	1
	32
	1
	1
	1
	2
	1
	1
	1
	1
	1
	1
	1
	8
	1
	1
	2
	1
	1
	1
	1
	3
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1

PAIR	FREQ
	1
	1
	1
	1
	1
	1
	1
	7
	3
	1
	1
	4
	1
	1
	1
	2
	1
	1
	1
	7
	1
	1
	3
	3
	6
	1
	8
	1
	2
	2
	1
	1
	1

PAIR	FREQ
	2
	1
	2
	1
	1
	1
	1
	1
	2
	2
	2
	1
	1
	1
	1
	1
	1
	1
	2
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	3
	1
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	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
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	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1

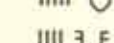
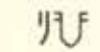
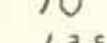
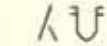
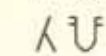
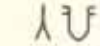
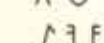
PAIR	FREQ
	1
	1
	1
	1
	1
	1
	2
	1
	1
	5
	2
	1
	1
	1
	1
	1
	1
	18
	3
	2
	1
	2
	6
	1
	1
	4
	1
	2
	16
	1
	4
	1

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	2		3		1		1
	1		1		2		1
	1		1		5		1
	6		1		2		1
	2		2		2		1
	3		1		1		2
	1		1		13		3
	2		9		1		3
	1		2		2		16
	2		1		4		1
	1		1		1		1
	4		1		4		87
	10		2		1		1
	1		126		1		1
	2		1		1		8
	3		2		4		1
	1		1		1		4
	1		1		1		2
	2		3		1		1
	1		1		1		1
	2		1		1		2
	1		2		1		1
	1		2		2		3
	2		2		2		1
	3		1		1		1
	1		12		7		1
	2		1		1		1
	2		1		1		4
	1		3		6		1
	2		3		2		1
	1		1		1		4
	1		2		1		17

(Contd.)

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		1		1		1
	1		1		13		1
	1		1		3		1
	6		1		5		1
	1		1		2		1
	1		1		3		3
	1		2		1		1
	10		1		3		2
	1		4		4		1
	2		2		1		1
	1		3		1		1
	1		1		1		3
	184		1		1		1
	1		2		1		1
	1		1		1		1
	1		1		3		5
	1		1		2		3
	1		1		1		3
	2		1		2		2
	1		2		1		1
	1		1		1		1
	6		4		2		1
	1		9		2		1
	4		12		1		2
	2		1		1		1
	1		1		2		1
	1		5		1		1
	1		1		2		2
	1		1		1		1
	2		5		9		1
	1		10		2		2
	1		1				

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
[illegible]	1	[illegible]	1	[illegible]	2	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	2
[illegible]	1	[illegible]	1	[illegible]	2	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	3	[illegible]	2
[illegible]	1	[illegible]	110	[illegible]	2	[illegible]	1
[illegible]	1	[illegible]	20	[illegible]	4	[illegible]	10
[illegible]	3	[illegible]	1	[illegible]	1	[illegible]	9
[illegible]	2	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	2	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	17	[illegible]	4
[illegible]	3	[illegible]	1	[illegible]	1	[illegible]	8
[illegible]	4	[illegible]	31	[illegible]	1	[illegible]	2
[illegible]	1	[illegible]	1	[illegible]	2	[illegible]	1
[illegible]	2	[illegible]	1	[illegible]	4	[illegible]	1
[illegible]	3	[illegible]	1	[illegible]	4	[illegible]	1
[illegible]	2	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	2	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	2	[illegible]	2
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	4
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	2
[illegible]	1	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	1	[illegible]	3	[illegible]	1	[illegible]	1
[illegible]	6	[illegible]	1	[illegible]	1	[illegible]	1
[illegible]	8	[illegible]	2	[illegible]	1	[illegible]	1

(*Contd.*)

PAIR	FREQ
	1
	1
	1
	1
	2
	1
	3
	1
	1
	1
	2
	1
	1
	1
	1
	2
	3
	1
	6
	2
	1
	8
	1
	8
	2
	1
	1
	12
	5
	1

PAIR	FREQ
	2
	2
	2
	3
	1
	1
	1
	1
	1
	1
	1
	3
	16
	1
	1
	1
	4
	1
	28
	1
	5
	1
	1
	15
	1
	5
	1
	4
	15
	4
	2
	1

PAIR	FREQ
	15
	1
	2
	2
	1
	1
	2
	3
	5
	1
	11
	2
	1
	1
	2
	1
	1
	7
	14
	4
	83
	1
	1
	24
	1
	1
	1
	1
	1
	7
	1
	2

PAIR	FREQ
	3
	1
	1
	9
	1
	1
	1
	1
	5
	1
	1
	1
	1
	1
	2
	2
	1
	1
	1
	1
	1
	1
	1
	1
	1
	1
	4
	1
	1
	1

(Contd.)

TABLE II : FREQUENCY OF PAIRWISE COMBINATIONS

PAIR	FREQ	PAIR	FREQ	PAIR	FREQ	PAIR	FREQ
	1		1		1		17
	1		1		2		26
	2		6		2		1
	1		6		2		6
	1		2		1		17
	1		1		1		1
	1		1		1		1
	1		1		1		4
	1		1		2		1
	1		1		21		1
	3		1		1		1
	1		3		1		5
	1		1		6		1
	2		1		1		1
	1		1		2		1
	6		1		10		3
	3		34		2		
	16		3		1		

NOTES:

1. Abbreviations: PAIR: Pairwise combinations of signs; FREQ: Frequency.
2. The pairwise combinations of signs are arranged in the order of the first member and read from right to left.
3. Pairwise combinations listed in this Table occur within a line of text.

TABLE III
DISTRIBUTION OF SIGNS BY SITES

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	70	22	2	14	21	1	4	134
	15	5	0	0	1	0	0	21
	5	0	0	0	0	0	1	6
	2	0	0	0	0	0	0	2
	1	0	0	1	0	0	0	2
	3	2	0	0	0	0	0	5
	2	6	0	0	0	0	0	8
	67	28	4	5	1	0	0	105
	8	3	1	0	0	0	0	12
	5	0	0	0	0	0	1	6
	1	0	0	0	0	0	1	2
	43	21	5	3	6	1	1	80
	1	0	0	0	0	0	0	1
	7	4	2	0	0	0	0	13
	62	57	1	3	1	1	1	126
	1	0	0	0	0	0	0	1
	60	14	5	8	3	1	0	91
	20	2	1	2	0	1	1	27
	7	0	0	1	0	0	0	8
	1	0	0	0	0	0	0	1
	0	0	0	0	0	0	2	2
	1	1	0	0	1	0	0	3
	1	0	0	0	0	0	0	1
	0	1	0	0	0	1	0	2
	40	12	0	1	0	0	0	53
	1	0	0	0	0	0	0	1
	1	1	0	0	0	0	0	2
	27	14	3	3	1	2	0	50
	1	0	1	0	0	0	1	3
	2	0	0	0	0	0	0	2
	1	1	0	0	0	0	0	2
	4	2	0	3	1	1	0	11

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	0	1	0	0	0	0	0	1
	2	0	0	0	0	0	0	2
	4	0	0	0	0	0	0	4
	2	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	1
	6	0	0	0	0	0	0	6
	1	0	0	0	0	0	0	1
	6	8	0	0	0	0	0	14
	15	1	0	3	0	1	0	20
	0	1	0	0	0	0	0	1
	1	0	0	0	0	1	0	2
	0	2	0	0	0	0	0	2
	4	0	0	0	0	0	0	4
	0	1	0	0	0	0	0	1
	5	7	0	2	2	0	0	16
	68	84	3	5	6	1	1	168
	2	0	0	0	0	0	0	2
	8	0	0	0	0	0	0	8
	52	41	3	4	2	1	2	105
	1	0	0	0	0	0	0	1
	74	41	1	7	5	1	1	130
	13	5	0	1	0	0	0	19
	3	1	0	0	0	0	0	4
	5	3	0	0	0	0	0	8
	4	1	0	0	1	0	1	7
	5	2	0	0	0	0	0	7
	205	122	9	25	12	3	5	381
	20	2	3	3	0	1	0	29
	1	0	0	0	0	0	0	1
	9	1	3	0	0	0	0	13
	10	0	0	0	0	0	0	10
	1	1	0	0	0	0	0	2

(Contd.)

TABLE III : DISTRIBUTION OF SIGNS BY SITES

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	135	57	7	12	1	3	1	216
	7	4	0	7	0	1	0	19
	147	103	9	15	3	1	1	279
	9	0	0	0	0	0	0	9
	3	0	1	0	0	0	0	4
	44	20	1	4	3	1	0	73
	4	3	0	0	0	0	0	7
	109	54	3	17	3	2	0	188
	2	4	0	1	1	0	0	8
	1	0	0	0	0	0	1	2
	9	3	0	0	0	0	1	13
	11	3	0	0	1	0	0	15
	0	1	0	1	0	0	0	2
	5	2	1	0	0	0	0	8
	1	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	4
	17	3	0	3	1	0	0	24
	1	0	0	0	0	0	0	1
	3	1	0	0	0	0	0	4
	5	2	0	0	1	0	0	8
	0	1	0	0	0	0	0	1
	91	37	7	7	5	2	0	149
	165	162	15	13	7	3	0	365
	1	0	0	0	0	0	0	1
	120	175	4	3	9	2	1	314
	2	0	0	0	0	0	0	2
	2	0	0	0	0	0	0	2
	0	0	0	0	1	0	0	1
	0	0	11	0	0	0	0	11
	3	6	0	0	2	0	0	11
	5	58	1	0	0	0	0	64
	14	7	0	1	0	0	0	22

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	67	14	0	4	1	0	5	91
	56	9	3	15	3	1	1	88
	374	137	22	73	33	9	1	649
	16	8	1	3	1	0	0	29
	1	0	0	0	0	0	0	1
	84	51	2	4	7	1	2	151
	6	19	1	2	1	0	1	30
	40	21	2	3	2	1	1	70
	1	0	0	1	0	0	0	2
	25	8	1	2	2	0	0	38
	2	0	1	1	1	0	1	6
	3	0	0	0	0	0	0	3
	23	11	2	1	1	0	0	38
	3	2	0	0	0	1	0	6
	2	1	0	0	0	1	0	4
	39	22	0	2	3	4	0	70
	3	3	0	11	0	0	0	17
	3	4	0	0	0	0	0	7
	0	1	0	0	0	0	0	1
	0	2	0	0	0	0	0	2
	0	1	0	0	0	0	0	1
	0	1	0	0	0	0	0	1
	0	12	0	0	1	0	0	13
	1	0	0	1	0	0	0	2
	26	10	2	14	16	1	1	70
	0	1	0	0	0	0	0	1
	120	36	9	20	4	3	1	193
	58	17	1	1	1	0	0	78
	15	2	0	0	1	0	0	18
	1	1	0	2	0	0	0	4
	21	20	2	1	5	1	0	50
	3	3	0	1	0	0	1	8

(Contd.)

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	4	0	1	0	0	0	0	5
	31	28	0	2	1	1	0	63
	1	0	0	0	0	0	0	1
	2	1	0	0	0	0	0	3
	1	0	0	0	0	0	0	1
	8	4	1	0	0	0	1	14
	14	18	1	2	0	0	0	35
	6	8	0	0	0	1	0	15
	16	7	0	0	0	0	0	23
	2	2	0	0	0	0	0	4
	12	2	1	0	0	0	0	15
	2	0	0	0	0	0	0	2
	0	2	0	2	0	0	0	4
	0	7	0	0	0	0	0	7
	2	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	2	0	0	0	0	1	0	3
	1	0	0	0	0	0	0	1
	0	1	0	0	0	0	0	1
	41	44	3	1	2	1	0	92
	34	22	1	5	0	1	0	63
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	16	6	0	2	0	1	1	26
	1	0	0	0	0	0	0	1
	34	11	1	3	0	0	0	49
	1	0	0	0	0	0	0	1
	0	0	0	0	0	0	1	1
	1	1	1	1	0	0	0	4
	2	0	0	0	0	0	0	2
	5	0	0	0	1	0	0	6

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	3	1	0	0	0	0	0	4
	133	43	10	11	7	5	3	212
	4	0	0	0	1	0	0	5
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	0	0	0	0	0	1	0	1
	1	2	0	1	2	0	1	7
	0	0	0	1	0	0	0	1
	134	79	3	16	4	4	0	240
	0	1	0	0	0	0	0	1
	78	45	1	3	3	1	1	132
	1	0	0	0	7	0	0	8
	17	15	0	3	0	1	2	38
	6	3	0	1	1	0	0	11
	32	11	1	1	6	1	2	54
	101	239	3	1	9	2	0	355
	4	16	1	0	0	0	0	21
	15	18	0	0	0	1	1	35
	1	0	0	0	0	0	0	1
	27	7	4	0	3	3	0	44
	2	0	0	0	0	0	0	2
	22	18	0	1	0	1	1	43
	10	1	0	0	0	0	0	11
	5	0	0	0	0	0	1	6
	0	0	0	0	0	0	1	1
	16	9	1	7	0	0	0	33
	2	1	0	0	0	0	0	3
	1	2	0	0	0	0	0	3
	2	2	0	0	0	0	0	4
	14	4	1	2	0	1	0	22
	1	0	0	0	0	0	0	1
	8	10	0	1	2	0	0	21

(*Contd.*)

TABLE III : DISTRIBUTION OF SIGNS BY SITES

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	8	16	0	0	1	0	0	25
	41	11	0	2	3	1	0	58
	3	1	0	0	0	0	0	4
	1	0	0	0	0	0	0	1
	34	18	1	7	0	0	0	60
	1	2	1	0	0	0	0	4
	2	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	1
	6	2	0	0	1	0	0	9
	8	0	0	0	1	0	0	9
	2	0	0	0	0	0	0	2
	51	20	0	3	1	1	0	76
	11	11	1	1	2	0	0	26
	4	2	0	0	1	0	0	7
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	5	4	0	15	0	0	0	24
	5	17	0	0	0	0	0	22
	130	74	5	11	6	1	0	227
	3	1	2	0	0	0	0	6
	1	0	0	0	0	1	0	2
	9	2	1	2	2	0	0	16
	9	1	0	0	0	0	0	10
	54	22	2	5	5	2	0	90
	4	3	0	2	1	0	0	10
	1	0	0	0	0	0	0	1
	7	2	0	1	0	1	0	11
	1	0	0	0	0	0	0	1
	3	1	0	0	0	0	0	4
	16	3	0	3	0	0	0	22
	3	2	0	1	0	0	0	6
	10	4	0	0	0	0	0	14
	2	1	1	0	0	0	0	4
	4	5	0	1	0	1	0	11
	1	0	0	0	0	0	0	1
	2	1	1	0	1	0	0	5
	3	1	0	0	1	0	0	5
	36	12	0	2	4	0	0	54
	1	0	0	0	0	0	0	1
	0	0	0	0	1	0	0	1
	21	6	0	1	1	0	0	29
	5	1	1	0	0	0	0	7
	1	0	0	0	0	0	0	1
	0	0	0	0	1	0	0	1
	2	5	0	1	0	0	0	8
	4	0	0	0	0	0	0	4
	1	0	0	0	0	0	0	1
	3	0	0	0	0	0	0	3
	0	1	0	0	0	0	0	1
	22	3	0	0	1	0	0	26
	1	0	0	0	0	0	0	1
	40	40	3	1	4	0	1	89
	144	43	1	15	1	1	2	207
	0	0	0	1	0	0	0	1
	5	2	0	1	0	0	0	8
	0	0	0	1	0	0	0	1
	78	69	3	14	3	2	1	170
	9	3	1	0	0	0	0	13
	1	0	0	0	0	0	0	1
	30	18	0	2	1	0	0	51
	12	9	0	0	0	0	0	21
	40	19	1	10	0	2	1	73
	1	0	0	0	0	0	0	1
	1	2	0	1	0	0	0	4

(Contd.)

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	1	1	0	0	0	0	0	2
	5	9	0	6	0	0	0	20
	2	0	0	1	0	0	0	3
	1	0	0	0	0	0	0	1
	17	6	2	0	0	2	0	27
	1	0	0	0	0	0	0	1
	1	5	0	0	0	1	0	7
	11	0	0	0	0	0	0	11
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	216	90	16	35	14	5	0	376
	2	2	0	0	0	0	0	4
	0	0	0	0	1	0	0	1
	0	1	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	1	1	0	1	0	0	0	3
	0	1	0	0	0	0	0	1
	0	0	0	0	1	0	0	1
	1	4	0	0	0	0	0	5
	0	2	0	0	0	0	0	2
	8	3	0	0	0	0	0	11
	0	1	0	0	1	0	0	2
	1	0	0	0	0	0	0	1
	0	2	0	0	0	0	0	2
	0	1	0	0	0	0	0	1
	2	0	0	0	1	0	0	3
	3	1	0	0	0	0	0	4
	21	18	0	1	0	1	0	41
	1	0	0	0	0	0	0	1
	6	1	0	8	0	0	0	15
	55	24	1	1	5	2	0	88
	1	0	0	0	0	0	0	1

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	4	1	0	0	0	0	0	5
	3	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	1
	5	2	0	1	0	0	0	8
	79	36	7	11	1	2	0	136
	28	18	1	5	0	0	1	53
	7	2	0	0	0	0	0	9
	32	3	0	0	0	0	0	35
	4	0	0	0	0	0	2	6
	3	1	0	0	0	0	0	4
	0	0	0	1	0	0	0	1
	0	1	0	0	0	0	0	1
	8	5	0	0	0	0	0	13
	9	2	1	0	1	0	0	13
	9	0	0	0	1	1	0	11
	1	2	0	1	7	0	0	11
	2	1	0	0	0	0	0	3
	1	0	0	0	0	0	0	1
	21	35	2	0	8	2	1	69
	0	0	0	0	1	0	0	1
	2	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	1
	1	2	0	0	0	0	0	3
	1	1	0	0	0	0	0	2
	0	1	0	0	1	0	0	2
	0	0	1	0	0	0	0	1
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	0	1	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	20	6	0	0	1	0	0	27
	0	0	0	1	0	0	0	1

(Contd.)

TABLE III : DISTRIBUTION OF SIGNS BY SITES

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	9	3	1	0	0	0	0	13
	3	1	0	0	0	0	0	4
	7	2	0	0	0	1	0	10
	0	0	0	0	2	0	0	2
	8	4	0	0	0	1	0	13
	20	8	2	1	3	0	1	35
	25	9	2	4	1	0	1	42
	28	288	1	3	2	1	0	323
	4	2	1	0	0	0	0	7
	5	2	0	0	1	0	0	8
	2	3	0	0	0	0	0	5
	3	0	0	0	0	0	0	3
	2	1	0	0	0	0	0	3
	4	0	0	0	0	0	0	4
	0	2	0	0	0	0	0	2
	156	54	4	17	2	2	1	236
	1	4	0	0	0	0	0	5
	3	0	0	0	0	0	0	3
	0	0	0	1	0	0	0	1
	1	3	0	0	0	1	0	5
	30	20	2	1	5	0	1	59
	766	472	28	71	44	9	5	1395
	101	39	6	20	7	4	0	177
	24	7	0	1	3	0	0	35
	33	16	1	0	0	0	1	51
	2	0	0	0	0	0	0	2
	69	35	0	11	2	1	0	118
	18	3	0	1	0	0	0	22
	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	0	0	1	0	0	0	0	1
	1	0	0	0	0	0	0	1

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	0	0	1	0	0	0	0	1
	1	0	0	0	0	0	0	1
	1	1	0	0	0	0	0	2
	0	0	0	0	1	0	0	1
	1	0	0	0	0	0	0	1
	28	2	0	2	0	0	0	32
	1	1	0	0	0	0	0	2
	1	0	0	0	0	0	0	1
	0	0	0	1	0	0	0	1
	2	0	0	0	0	0	0	2
	3	0	0	0	0	0	0	3
	1	1	0	1	0	0	0	3
	0	2	0	0	0	2	0	4
	1	0	0	0	0	0	0	1
	1	5	1	0	1	0	0	8
	0	2	0	0	0	0	0	2
	0	2	0	0	0	0	0	2
	0	0	0	0	1	0	0	1
	3	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	1
	31	19	3	4	4	0	0	61
	4	3	1	0	0	0	1	9
	35	15	2	2	3	0	0	57
	1	0	0	0	1	0	0	2
	1	0	0	0	0	0	0	1
	0	1	0	1	0	0	0	2
	6	11	0	0	0	0	0	17
	1	2	1	1	0	0	0	5
	9	3	1	1	0	0	0	14
	0	1	0	0	0	0	0	1
	1	0	0	0	0	0	0	1
	5	2	0	0	0	0	0	7

(Contd.)

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	0	1	0	0	0	0	0	1
	11	0	0	1	0	0	0	12
	68	18	7	3	2	3	1	102
	4	4	0	0	0	0	0	8
	77	52	0	4	1	0	0	134
	2	1	0	0	0	0	0	3
	130	43	2	10	8	2	0	195
	1	0	0	0	0	0	0	1
	5	2	0	0	0	0	0	7
	2	0	0	0	0	0	0	2
	5	1	0	0	1	0	0	7
	1	0	0	0	0	0	0	1
	12	1	0	0	0	0	0	13
	6	1	0	0	0	0	0	7
	1	0	0	0	0	0	0	1
	11	1	0	1	0	1	0	14
	0	0	1	0	0	0	0	1

SIGN	MD	HP	CD	LL	KB	OS	WA	TOT
	51	35	3	5	5	0	0	99
	46	37	4	4	1	0	1	93
	4	0	1	0	0	0	0	5
	1	0	0	0	0	0	0	1
	10	0	2	1	0	0	0	13
	42	4	1	1	0	0	0	48
	1	0	0	0	0	0	0	1
	17	8	0	1	0	0	0	26
	0	1	0	0	0	0	0	1
	0	1	0	0	0	0	0	1
	1	3	0	0	0	0	0	4
	0	1	0	0	0	0	0	1
	0	0	0	0	0	1	0	1
	7	1	0	1	0	0	0	9
	0	2	0	0	0	0	0	2
	2	2	0	0	1	0	0	5
TOT	7281	4359	327	760	423	141	81	13372

NOTE: See Code 7 for letter codes for sites (p. 31).

TABLE IV
DISTRIBUTION OF SIGNS BY OBJECT TYPES

SIGN	1	2	3	4	5	6	7	9	TOT
	84	42	4	2	0	2	0	0	134
	15	4	1	0	0	0	1	0	21
	6	0	0	0	0	0	0	0	6
	2	0	0	0	0	0	0	0	2
	1	1	0	0	0	0	0	0	2
	1	0	1	1	0	0	2	0	5
	3	2	2	1	0	0	0	0	8
	69	26	2	0	7	0	0	1	105
	9	3	0	0	0	0	0	0	12
	4	2	0	0	0	0	0	0	6
	2	0	0	0	0	0	0	0	2
	62	8	5	3	0	1	1	0	80
	1	0	0	0	0	0	0	0	1
	13	0	0	0	0	0	0	0	13
	80	27	15	2	0	0	2	0	126
	1	0	0	0	0	0	0	0	1
	76	10	1	2	0	0	1	1	91
	8	2	0	1	15	1	0	0	27
	8	0	0	0	0	0	0	0	8
	1	0	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	0	2
	3	0	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	0	0	1	1	0	0	0	0	2
	32	7	0	2	12	0	0	0	53
	1	0	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	0	2
	42	5	3	0	0	0	0	0	50
	2	1	0	0	0	0	0	0	3
	2	0	0	0	0	0	0	0	2
	2	0	0	0	0	0	0	0	2
	8	2	0	1	0	0	0	0	11

SIGN	1	2	3	4	5	6	7	9	TOT
	0	0	0	0	0	0	0	1	1
	2	0	0	0	0	0	0	0	2
	1	3	0	0	0	0	0	0	4
	1	0	0	0	0	0	1	0	2
	1	0	0	0	0	0	0	0	1
	5	1	0	0	0	0	0	0	6
	1	0	0	0	0	0	0	0	1
	7	6	1	0	0	0	0	0	14
	8	11	0	1	0	0	0	0	20
	0	1	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	0	2
	0	0	2	0	0	0	0	0	2
	0	4	0	0	0	0	0	0	4
	0	1	0	0	0	0	0	0	1
	9	3	2	2	0	0	0	0	16
	67	34	48	4	13	0	2	0	168
	2	0	0	0	0	0	0	0	2
	8	0	0	0	0	0	0	0	8
	62	25	12	2	4	0	0	0	105
	1	0	0	0	0	0	0	0	1
	86	31	2	4	7	0	0	0	130
	16	3	0	0	0	0	0	0	19
	4	0	0	0	0	0	0	0	4
	6	2	0	0	0	0	0	0	8
	6	1	0	0	0	0	0	0	7
	7	0	0	0	0	0	0	0	7
	244	72	34	14	14	1	2	0	381
	25	2	2	0	0	0	0	0	29
	1	0	0	0	0	0	0	0	1
	8	0	0	1	4	0	0	0	13
	0	10	0	0	0	0	0	0	10
	2	0	0	0	0	0	0	0	2

(Contd.)

SIGN	1	2	3	4	5	6	7	9	TOT
	148	42	4	4	16	1	1	0	216
	10	7	1	1	0	0	0	0	19
	168	72	23	2	8	2	4	0	279
	9	0	0	0	0	0	0	0	9
	3	0	0	1	0	0	0	0	4
	59	6	1	2	5	0	0	0	73
	6	1	0	0	0	0	0	0	7
	133	24	9	2	20	0	0	0	188
	4	0	4	0	0	0	0	0	8
	2	0	0	0	0	0	0	0	2
	13	0	0	0	0	0	0	0	13
	13	1	1	0	0	0	0	0	15
	2	0	0	0	0	0	0	0	2
	5	2	0	0	0	0	0	1	8
	1	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	4
	17	6	1	0	0	0	0	0	24
	1	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	4
	7	1	0	0	0	0	0	0	8
	1	0	0	0	0	0	0	0	1
	111	18	14	4	0	1	1	0	149
	188	76	68	9	21	1	1	1	365
	1	0	0	0	0	0	0	0	1
	124	75	80	6	29	0	0	0	314
	1	0	0	1	0	0	0	0	2
	2	0	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	10	1	0	0	0	0	0	0	11
	6	1	4	0	0	0	0	0	11
	2	13	48	0	0	0	1	0	64
	12	4	2	1	1	0	0	2	22

SIGN	1	2	3	4	5	6	7	9	TOT
	71	1	0	2	16	0	0	1	91
	62	15	0	2	5	2	1	1	88
	515	115	5	6	2	1	4	1	649
	21	4	2	2	0	0	0	0	29
	0	0	0	1	0	0	0	0	1
	102	20	4	12	9	1	1	2	151
	11	4	13	0	0	0	2	0	30
	42	8	8	5	1	4	1	1	70
	1	1	0	0	0	0	0	0	2
	27	4	2	1	0	3	1	0	38
	5	0	0	0	0	0	0	1	6
	1	0	0	0	0	2	0	0	3
	27	7	2	0	0	1	0	1	38
	4	0	0	0	0	1	0	1	6
	3	0	0	1	0	0	0	0	4
	47	7	2	4	10	0	0	0	70
	4	12	1	0	0	0	0	0	17
	4	2	1	0	0	0	0	0	7
	0	0	0	1	0	0	0	0	1
	2	0	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	0	1	0	0	0	0	0	0	1
	2	0	11	0	0	0	0	0	13
	2	0	0	0	0	0	0	0	2
	36	29	0	3	0	0	2	0	70
	1	0	0	0	0	0	0	0	1
	162	21	6	3	1	0	0	0	193
	54	1	3	2	17	0	0	1	78
	16	2	0	0	0	0	0	0	18
	4	0	0	0	0	0	0	0	4
	38	11	0	1	0	0	0	0	50
	8	0	0	0	0	0	0	0	8

(Contd.)

TABLE IV : DISTRIBUTION OF SIGNS BY OBJECT TYPES

SIGN	1	2	3	4	5	6	7	9	TOT
	2	2	0	0	0	1	0	0	5
	33	21	7	0	2	0	0	0	63
	1	0	0	0	0	0	0	0	1
	2	1	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	7	3	0	2	0	2	0	0	14
	16	16	0	2	0	0	1	0	35
	8	6	0	0	0	0	0	1	15
	6	12	2	1	0	1	0	1	23
	0	0	2	0	2	0	0	0	4
	15	0	0	0	0	0	0	0	15
	2	0	0	0	0	0	0	0	2
	3	1	0	0	0	0	0	0	4
	0	1	6	0	0	0	0	0	7
	2	0	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	2	0	0	1	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	0	0	1	0	0	0	0	0	1
	48	21	19	1	3	0	0	0	92
	47	12	2	2	0	0	0	0	63
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	21	4	0	1	0	0	0	0	26
	1	0	0	0	0	0	0	0	1
	36	7	0	3	2	0	0	1	49
	0	0	0	0	0	0	0	1	1
	1	0	0	0	0	0	0	0	1
	3	0	0	1	0	0	0	0	4
	2	0	0	0	0	0	0	0	2
	6	0	0	0	0	0	0	0	6

SIGN	1	2	3	4	5	6	7	9	TOT
	4	0	0	0	0	0	0	0	4
	163	33	5	3	0	1	7	0	212
	4	0	0	0	0	1	0	0	5
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	0	1	0	0	0	0	0	0	1
	5	1	0	1	0	0	0	0	7
	1	0	0	0	0	0	0	0	1
	115	47	2	13	60	1	2	0	240
	1	0	0	0	0	0	0	0	1
	79	34	12	0	5	0	1	1	132
	1	7	0	0	0	0	0	0	8
	26	3	8	1	0	0	0	0	38
	8	0	0	2	1	0	0	0	11
	43	9	1	1	0	0	0	0	54
	89	121	127	6	0	0	12	0	355
	5	7	9	0	0	0	0	0	21
	22	11	0	0	0	0	2	0	35
	1	0	0	0	0	0	0	0	1
	42	1	0	1	0	0	0	0	44
	2	0	0	0	0	0	0	0	2
	25	16	0	1	0	1	0	0	43
	1	0	0	0	10	0	0	0	11
	3	0	0	0	3	0	0	0	6
	1	0	0	0	0	0	0	0	1
	24	8	0	1	0	0	0	0	33
	2	1	0	0	0	0	0	0	3
	0	2	0	0	0	0	0	1	3
	4	0	0	0	0	0	0	0	4
	12	3	0	0	7	0	0	0	22
	1	0	0	0	0	0	0	0	1
	10	10	1	0	0	0	0	0	21

(Contd.)

SIGN	1	2	3	4	5	6	7	9	TOT
	10	10	5	0	0	0	0	0	25
	34	4	1	1	16	0	2	0	58
	4	0	0	0	0	0	0	0	4
	1	0	0	0	0	0	0	0	1
	48	8	4	0	0	0	0	0	60
	2	0	2	0	0	0	0	0	4
	1	1	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	2	4	2	0	1	0	0	0	9
	6	2	0	0	0	0	0	1	9
	2	0	0	0	0	0	0	0	2
	41	12	0	1	22	0	0	0	76
	15	2	8	0	0	0	0	1	26
	7	0	0	0	0	0	0	0	7
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	6	17	0	1	0	0	0	0	24
	6	15	0	1	0	0	0	0	22
	155	42	19	2	8	0	0	1	227
	6	0	0	0	0	0	0	0	6
	1	0	0	1	0	0	0	0	2
	11	2	0	3	0	0	0	0	16
	10	0	0	0	0	0	0	0	10
	64	11	6	5	0	0	3	1	90
	6	1	2	1	0	0	0	0	10
	1	0	0	0	0	0	0	0	1
	9	2	0	0	0	0	0	0	11
	1	0	0	0	0	0	0	0	1
	3	0	0	0	0	0	1	0	4
	22	0	0	0	0	0	0	0	22
	4	0	2	0	0	0	0	0	6
	12	0	2	0	0	0	0	0	14

SIGN	1	2	3	4	5	6	7	9	TOT
	3	1	0	0	0	0	0	0	4
	9	1	0	0	0	0	0	1	11
	1	0	0	0	0	0	0	0	1
	5	0	0	0	0	0	0	0	5
	5	0	0	0	0	0	0	0	5
	42	12	0	0	0	0	0	0	54
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	22	5	2	0	0	0	0	0	29
	7	0	0	0	0	0	0	0	7
	1	0	0	0	0	0	0	0	1
	0	0	0	0	0	1	0	0	1
	7	1	0	0	0	0	0	0	8
	4	0	0	0	0	0	0	0	4
	1	0	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	1	3
	1	0	0	0	0	0	0	0	1
	25	1	0	0	0	0	0	0	26
	1	0	0	0	0	0	0	0	1
	54	13	18	1	0	2	0	1	89
	109	38	7	5	48	0	0	0	207
	1	0	0	0	0	0	0	0	1
	8	0	0	0	0	0	0	0	8
	1	0	0	0	0	0	0	0	1
	97	57	11	3	2	0	0	0	170
	10	0	2	0	0	0	1	0	13
	1	0	0	0	0	0	0	0	1
	30	7	0	0	11	2	0	1	51
	14	4	3	0	0	0	0	0	21
	56	9	6	1	0	0	1	0	73
	1	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	4

(Contd.)

TABLE IV : DISTRIBUTION OF SIGNS BY OBJECT TYPES

SIGN	1	2	3	4	5	6	7	9	TOT
	2	0	0	0	0	0	0	0	2
	7	4	9	0	0	0	0	0	20
	2	0	0	1	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	20	3	0	2	0	2	0	0	27
	1	0	0	0	0	0	0	0	1
	1	2	3	1	0	0	0	0	7
	10	1	0	0	0	0	0	0	11
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	288	50	24	5	3	2	3	1	376
	2	2	0	0	0	0	0	0	4
	0	0	0	1	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	2	1	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	1	0	4	0	0	0	0	0	5
	0	0	2	0	0	0	0	0	2
	4	5	0	2	0	0	0	0	11
	2	0	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	0	1	1	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	3	0	0	0	0	0	0	0	3
	1	3	0	0	0	0	0	0	4
	26	2	11	2	0	0	0	0	41
	1	0	0	0	0	0	0	0	1
	7	7	1	0	0	0	0	0	15
	51	9	6	2	15	1	0	4	88
	1	0	0	0	0	0	0	0	1

SIGN	1	2	3	4	5	6	7	9	TOT
	4	0	1	0	0	0	0	0	5
	3	0	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	8	0	0	0	0	0	0	0	8
	103	26	1	3	0	2	0	1	136
	33	17	2	0	1	0	0	0	53
	4	0	0	0	5	0	0	0	9
	25	0	1	0	9	0	0	0	35
	6	0	0	0	0	0	0	0	6
	2	0	0	1	1	0	0	0	4
	0	1	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	13	0	0	0	0	0	0	0	13
	11	0	0	0	0	0	0	2	13
	8	3	0	0	0	0	0	0	11
	3	7	1	0	0	0	0	0	11
	3	0	0	0	0	0	0	0	3
	1	0	0	0	0	0	0	0	1
	31	19	16	1	0	0	1	1	69
	1	0	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	0	2
	1	0	0	0	0	0	0	0	1
	1	2	0	0	0	0	0	0	3
	0	0	0	1	0	1	0	0	2
	0	0	0	1	0	1	0	0	2
	0	0	0	0	0	1	0	0	1
	0	0	0	0	0	1	0	0	1
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	1	0	0	0	0	0	0	0	1
	17	4	0	1	4	0	0	1	27
	1	0	0	0	0	0	0	0	1

(Contd.)

TABLE V

DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	71	03	3	04	6	06	1	09	4	11	1	19	2
	27	1	33	1	35	4	36	1	44	1	48	1	51	1
	64	1	78	1	87	1	94	1	97	8				
	01	9	21	1	35	2	44	3	75	3				
	01	3	04	1	48	1								
	01	2												
	01	1	25	1										
	98	1												
	01	37	02	1	03	2	04	10	13	4	35	6	36	3
	44	1	50	1	83	1	85	2	86	1	98	1		
	01	7	03	1	41	1	98	1						
	04	4												
	01	1	04	1										
	01	45	03	2	04	3	11	1	21	1	35	4	36	1
	55	2	70	2	72	1	73	1	79	1	83	1		
	25	1												
	01	9												
	01	42	03	3	04	2	06	2	07	2	09	1	13	1
	22	1	35	2	37	1	44	7	61	1	83	1	85	3
	88	1	93	1	98	2								
	09	1												
	01	47	02	1	03	2	04	2	06	1	07	1	09	1
	25	1	34	1	35	2	36	1	43	1	44	2	58	2
	74	1	77	1										
	01	7	04	1	09	1	13	5	29	1	94	1	95	1
	01	4	03	1	04	1								
	01	1												
	04	2												
	01	1	03	1	04	1								
	01	1												
	01	18	03	2	04	1	07	1	09	1	11	3	29	5
	38	1	44	1	85	2	95	1						

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	1												
	01	2												
	01	32	04	3	06	1	13	1	35	1				
	01	1	13	1										
	01	2												
	01	1	09	1										
	01	9												
	01	1	04	1										
	01	1	98	2										
	01	1												
	11	1												
	01	4	07	2	74	1	77	1						
	04	1												
	01	3	04	1	13	2	15	1	36	2	85	1		
	01	3	03	1	97	8								
	01	1	10	1										
	41	1	44	3	75	3								
	01	6	04	1	83	1	85	2						
	01	49	03	1	04	4	06	1	07	1	09	3	11	1
	13	9	25	1	36	1	50	1	83	15	85	2	91	1
	93	1	94	1	98	2								
	01	2												
	01	6	04	1	09	1								
	01	44	04	7	06	1	07	2	09	2	35	3	36	10
	74	1	77	1	83	1								
	04	1												
	01	59	03	2	04	4	06	2	09	1	10	2	11	1
	14	3	35	1	36	1	44	4	59	1	69	1	83	1
	97	2												
	01	10	04	3	97	1								
	01	3	07	1										
	01	4												

(*Contd.*)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	5	04	1										
	01	3	03	1										
	01	169	03	6	04	17	07	6	09	1	11	4	12	1
	13	4	20	1	25	1	28	1	31	1	35	4	36	17
	37	1	43	2	44	3	47	1	48	1	69	1	73	1
	83	7	84	1	85	1	86	4	87	1	90	1	92	1
	97	3	98	1										
	01	16	03	1	13	1	35	3	83	2	91	1		
	07	1												
	01	7	11	4										
	11	8	98	2										
	01	2												
	01	97	03	1	04	16	06	1	07	2	09	3	11	6
	16	9	19	1	25	1	35	2	44	4	83	1	85	1
	89	1	90	1	97	8	98	1						
	01	7	02	1	04	2	10	1						
	01	135	02	2	03	2	04	10	05	1	06	1	07	3
	09	4	10	2	11	1	12	1	13	1	14	3	27	1
	35	3	37	2	49	2	63	1	83	5	85	4	91	1
	97	8	98	6										
	01	6	04	1	07	1	47	1						
	01	1	03	1										
	01	33	03	4	04	1	06	2	07	2	11	1	13	3
	25	1	31	1	35	1	47	1	78	1				
	01	5	07	1										
	01	81	03	4	04	13	06	1	07	3	09	1	11	6
	13	7	35	3	37	2	45	1	83	2	89	1		
	01	3	06	1	83	1								
	04	1												
	01	10	04	1										
	01	10	03	2	51	1	83	1						
	01	1												

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	4	11	1										
	01	1												
	01	3												
	01	14	06	2	07	1	31	1	83	1				
	01	1												
	01	2												
	01	4	07	1	09	1	35	1						
	01	1												
	01	77	03	5	04	3	06	4	07	3	11	1	13	2
	18	1	21	1	23	1	25	1	35	2	36	2	43	1
	44	1	57	2	73	2	79	1	80	1	83	3		
	01	129	02	2	03	6	04	9	07	4	09	1	11	3
	12	1	13	6	25	1	29	4	31	2	35	3	36	2
	37	3	44	1	46	1	49	2	51	1	54	1	58	2
	62	1	67	1	69	1	71	2	82	2	83	12	85	3
	91	7	93	3	98	1								
	09	1	36	1	40	1								
	01	75	04	5	06	1	07	10	09	1	10	1	11	7
	13	2	16	10	25	1	31	1	35	3	36	2	37	2
	44	7	79	1	83	15	91	2	93	1				
	01	1												
	01	1												
	01	7	36	1	62	1	72	1						
	01	5	07	1	83	2								
	01	2	37	1	44	3	51	1	75	3	83	4	91	1
	01	7	03	2	04	4	11	2	13	2	87	1	91	1
	97	2												
	01	34	03	1	04	8	11	2	29	9	35	1	38	1
	44	2	73	1	95	1								
	01	37	03	3	04	5	06	1	07	3	09	2	10	1
	11	1	23	1	25	2	35	1	91	1	98	1		

(Contd.)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
𓏺	01	385	02	3	03	18	04	26	06	5	07	24	08	1
	09	3	10	1	11	5	13	4	14	1	24	1	25	4
	26	1	29	1	31	1	33	1	35	7	36	2	43	2
	44	1	47	2	49	2	58	2	69	1	73	1	79	1
	85	3	98	1										
𓏺𓏺	01	13	02	1	03	1	06	1	07	1	13	2	35	3
𓏺𓏺𓏺	01	65	03	3	04	6	06	2	07	1	10	1	13	5
	20	1	35	2	36	2	44	3	68	1	85	2	87	1
𓏺𓏺 𓏺	01	7	04	1	07	1	31	1	37	1	91	1	98	1
𓏺𓏺𓏺𓏺	01	28	04	3	07	1	08	1	17	2	26	1	29	1
	35	2	39	1	44	1	46	1	83	2	90	1	98	1
𓏺𓏺 𓏺𓏺	01	1	03	1										
𓏺𓏺𓏺𓏺𓏺	01	14	03	2	04	2	06	1	11	1	25	2	35	1
	36	1	51	1	57	1	82	1	83	1				
𓏺𓏺𓏺 𓏺𓏺	01	1	04	1										
𓏺𓏺𓏺𓏺𓏺𓏺	01	1												
𓏺𓏺𓏺 𓏺𓏺𓏺	01	19	04	3	13	1	36	1	51	1	74	1	77	1
	84	1	85	1										
𓏺𓏺𓏺𓏺𓏺𓏺𓏺	01	1	13	1										
(𓏺𓏺𓏺𓏺𓏺)	01	2												
𓏺𓏺𓏺𓏺 𓏺𓏺𓏺	01	29	04	4	11	1	13	5	29	3	35	3	36	3
	37	1												
(𓏺𓏺𓏺 𓏺𓏺𓏺)	01	3	07	10										
𓏺𓏺𓏺𓏺 𓏺𓏺𓏺𓏺	01	3	07	1	83	1	91	2						
𓏺𓏺𓏺𓏺 𓏺𓏺𓏺𓏺	01	1												
𓏺𓏺𓏺𓏺 𓏺𓏺𓏺𓏺	01	1												
𓏺𓏺𓏺	01	1	73	1										
𓏺𓏺𓏺	01	1	04	1										
𓏺𓏺𓏺𓏺 𓏺𓏺𓏺𓏺	01	36	04	6	35	1	98	2						
)𓏺𓏺𓏺𓏺𓏺(	01	1												

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	109	03	5	04	3	06	2	07	2	09	1	11	2
	25	2	27	1	28	1	35	3	36	1	37	1	41	1
	44	1	47	1	51	1	69	1	73	1	83	3	92	1
	01	33	03	3	04	2	07	1	09	1	10	2	14	3
	24	1	35	1	52	6	73	1	83	1				
	01	14	09	1	43	2	59	1						
	01	21	03	1	04	3	07	2	09	1	35	3	36	3
	37	1	40	1										
	01	3	09	1										
	01	2	98	2										
	01	26	04	4	06	1	07	1	09	2	35	3	36	10
	74	1	77	1	83	1								
	01	2	04	1										
	01	1												
	01	3	03	1	04	1	06	1	35	1	43	1	44	1
	01	16	04	2	07	1	10	1	35	1	73	1	85	5
	98	1												
	01	5												
	01	5	97	8										
	91	2												
	01	9	06	1	07	1								
	01	1												
	01	2	13	1	54	1	85	1						
	37	2												
	01	2												
	01	1												
	01	1	04	1										
	01	1												
	01	23	04	1	06	1	07	1	25	1	35	4	36	10
	37	2	44	3	51	1	72	1	83	1	90	1		
	01	30	03	3	04	1	06	1	07	2	09	1	35	1
	37	1	47	1	50	1	82	1	83	1				

(Contd.)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	03	1												
	01	1												
	01	10	03	2	04	2	91	2						
	01	1												
	01	26	04	5	07	2	31	1	35	1	44	1	54	1
	85	1												
	01	3												
	01	1	04	1										
	01	6												
	01	1												
	01	119	02	1	03	8	04	9	07	2	09	1	11	5
	13	3	17	2	25	4	26	1	35	4	36	5	39	1
	44	7	46	1	50	1	51	1	55	2	64	1	70	2
	82	1	83	10										
	01	1	03	1	35	1								
	01	1												
	30	1												
	01	2	04	1	13	1								
	04	1												
	01	65	04	3	08	1	09	1	10	2	11	2	13	6
	14	3	16	19	29	1	35	2	36	9	44	2	52	6
	68	1	83	1	86	4	98	1						
	01	1												
	01	41	02	1	03	1	04	9	07	2	35	3	36	14
	44	1	83	7	86	5	90	1	92	1	97	2	98	2
	01	7	03	1										
	01	18	04	2	07	1	11	1	13	1	36	1		
	01	3												
	01	29	03	2	04	5	07	1	13	2	44	3		

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	55	03	1	04	5	05	1	07	2	09	3	11	2
	12	1	13	1	15	1	17	3	21	1	24	1	26	2
	35	1	36	17	37	2	43	2	44	12	45	1	50	2
	51	3	63	1	74	1	75	3	77	1	82	1	83	23
	85	6	87	1	88	1	90	1	91	5	93	1	97	4
	98	11												
	01	3	03	1	13	1	51	1	83	4				
	01	6	04	2	44	6	88	1	98	1				
	01	29	03	1	04	3	10	1	13	1	67	1		
	01	2												
	01	12	03	1	04	1	36	11						
	01	1	16	9										
	04	1	14	1										
	04	1												
	01	16	03	1	04	2	11	1	13	1	35	2	69	1
	04	1												
	55	2	70	2										
	01	3												
	01	7	06	1	10	1	13	5						
	01	1												
	01	3	03	1	04	1	07	2	35	1				
	01	8	83	2	91	2								
	01	24	03	2	05	1	11	2	13	5	29	4	63	1
	98	4												
	01	3	04	1										
	01	1												
	01	24	03	4	04	3	09	1	27	1	35	3		
	01	2	83	2										
	01	1												
	01	1												
	01	2	05	2	36	2	57	2	63	1				
	01	5	35	1										

(*Contd.*)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	2												
	01	20	04	4	06	1	11	1	14	19	35	3	36	8
	37	1	44	1	57	2								
	01	13	04	1										
	01	6	07	1										
	01	1												
	01	1												
	01	13	04	2										
	01	18	03	1										
	01	119	03	8	04	12	07	9	09	2	11	3	13	6
	25	2	28	1	35	3	37	2	44	1	45	1	69	1
	83	4	84	1	85	1	90	1	91	1	92	1		
	01	4	07	1										
	69	1												
	01	4	03	1	04	2	13	1						
	01	8	03	1	04	1								
	01	34	03	2	04	6	07	1	11	1	43	1	48	1
	69	1	73	2	83	2	98	2						
	01	5	03	1	31	1	83	1						
	01	1												
	01	3	04	1	11	1	78	1						
	01	2	98	1										
	01	12	04	1	09	1	89	1						
	01	2	03	1	83	1								
	01	7	03	1	04	1	06	1	51	1	83	2	87	1
	01	2	41	1	62	1								
	01	1	04	1	09	1								
	67	1												
	01	3	07	1	11	1								
	01	1	04	2	48	1	78	1						
	01	30	03	1	04	2	07	1	11	2	44	5		
	01	1												

(*Contd.*)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	13	04	1	13	1	98	2						
	01	2	07	1	62	1								
	01	1												
	01	4	07	1	59	3								
	01	2	04	1										
	01	14	07	3	11	2	28	1	33	1	64	1	69	1
	73	1	78	1										
	01	1												
	01	36	03	1	04	2	06	2	31	1	35	1	37	1
	42	6	83	5	97	6								
	01	83	03	2	04	8	06	2	09	2	11	5	14	20
	19	2	21	2	29	10	35	1	36	1	43	4	44	2
	74	2	77	2	83	2	95	2						
	01	3	04	2										
	01	66	03	3	04	5	11	5	13	1	25	1	35	3
	36	10	44	7	54	1	55	2	70	2	85	1	97	8
	01	5	03	1	09	1	36	1	40	1	44	2	98	1
	03	1												
	01	18	03	2	04	1	11	1	14	1	29	5	35	1
	95	1												
	01	11	07	1	11	2	83	2						
	01	30	04	8	07	1	09	2	11	1	43	1	73	1
	83	1	89	1	96	1	97	1	98	1				
	01	1												
	01	2												
	01	2												
	01	5	36	8										
	01	1												
	01	8	03	2	04	1	06	1	35	2	58	2	62	1
	69	1												
	07	1												
	36	1												

(Contd.)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	6	02	1	04	1	07	1	09	1	11	1	36	1
	40	1	51	1										
	01	1												
	01	1												
	01	212	02	3	03	9	04	10	06	4	07	21	08	1
	09	2	11	3	13	1	14	1	25	4	33	1	35	2
	36	1	37	2	44	1	47	2	49	2	50	1	79	1
	82	1	83	1	85	4	98	2						
	01	2	44	2										
	01	1												
	01	1												
	01	1	13	1										
	01	1												
	01	1												
	01	1												
	01	3	05	2	36	2	57	2	63	1	98	2		
	01	1												
	25	1												
	01	2	03	1										
	01	1	04	1	13	2	35	1						
	01	9	03	3	04	2	07	1	13	1	35	1	73	1
	82	1	83	5										
	01	1												
	01	7	04	1	28	1	93	1						
	01	35	04	1	06	1	13	4	35	4	44	1	52	6
	82	1												
	01	4	92	1										
	01	3												
	01	1												
	01	6	04	1										
	01	67	03	3	04	3	06	1	07	1	09	1	13	1
	35	2	36	12	44	2	51	1	85	1				

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	17	02	2	03	1	04	2	07	1	13	1	35	3
	44	1	47	1	69	1	85	4						
	01	2	29	4	59	1								
	01	17	03	1	07	6	09	1	10	1	83	1		
	01	1	03	2	04	2								
	01	2	29	1	96	1								
	01	1												
	01	8	04	2	07	1								
	01	6	03	1	07	2								
	01	7	04	1	43	2								
	01	10												
	01	3												
	01	1												
	01	27	03	2	04	2	07	2	17	3	21	1	36	2
	44	2	51	1	83	7	98	1						
	01	1												
	04	1												
	01	1												
	01	1												
	01	1												
	01	1												
	01	12	04	3	09	2	26	1	35	1	44	1		
	01	1												
	12	1	25	6	35	2	51	1	54	1	83	1	85	1
	01	3	07	1										
	01	3												
	01	2												
	01	5	13	2	18	1	35	2	36	1	73	1	80	1
	01	7	03	1	04	2	13	4	14	3	21	1	25	3
	32	3	65	3										
	01	19	03	1	04	1	06	1	09	1	13	1	29	3
	35	1	43	2	83	1								

(Contd.)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	11	02	2	04	2	07	2	11	1	13	1	35	1
	36	3	37	3	44	11	46	1	51	1	54	2	75	3
	79	1	83	28	85	8	91	8	93	3				
	01	5	07	1	35	1								
	01	5	06	1	24	1	27	1						
	01	1												
	01	2	35	1										
	69	1	83	1										
	01	2	03	1										
	01	1												
	01	101	02	1	03	4	04	7	07	10	10	1	11	7
	12	1	16	10	25	7	31	1	35	4	43	1	51	1
	54	1	59	1	79	1	83	2	85	1				
	01	1	85	3										
	04	1												
	01	1	36	2										
	01	21	03	2	04	1	07	1	11	1	29	1	35	1
	41	1	50	1	90	1	95	1						
	01	550	02	3	03	23	04	43	05	1	06	9	07	29
	09	10	10	2	11	18	13	18	14	20	18	1	20	1
	21	1	23	1	24	1	25	10	27	1	29	4	31	1
	32	3	33	1	35	34	36	38	37	4	40	1	41	1
	42	9	44	13	46	1	47	1	48	1	49	2	50	3
	51	1	52	6	54	1	56	1	57	1	60	1	62	1
	63	1	65	3	66	1	69	2	71	2	73	3	76	1
	78	1	80	1	82	4	83	33	85	8	86	1	87	2
	90	1	91	4	92	1	93	1	94	2	96	1	97	21
	98	12												
	01	105	03	5	04	11	07	2	09	1	13	1	35	8
	36	2	44	1	51	2	55	2	62	1	69	1	70	2
	83	3												

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	11	07	1	11	1	31	2	35	1	48	1	53	3
	98	1												
	01	16	03	1	04	2	29	1	35	1	85	5		
	01	43	03	1	04	3	07	3	09	2	11	2	13	2
	18	1	23	1	25	1	31	1	35	6	36	11	40	1
	56	1	73	1	80	1	83	3	85	4	98	4		
	01	15	07	1	25	1								
	01	1												
	01	1												
	01	1												
	01	1												
	01	2												
	01	1												
	01	1												
	01	6	14	19										
	01	1												
	01	1												
	01	2												
	01	2												
	04	1												
	01	1												
	01	2												
	01	1												
	01	16	04	1	07	2	13	4	46	1	52	5		
	01	2	04	2	06	1								
	01	25	04	2	07	1	35	2	36	2	87	2		
	35	1												
	01	1												
	01	7	04	1	17	3	83	1						
	01	2												
	01	8	09	1	11	1	13	1						
	41	1												

(Contd.)

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	1	35	1	98	2								
	01	4	47	1	98	2								
	01	59	03	1	04	8	05	1	07	2	11	1	35	1
	36	5	41	1	44	1	58	2	63	1	83	2	87	1
	98	2												
	01	3	03	1	04	1								
	01	27	04	1	11	1	13	7	36	11	44	6	52	5
	69	1	88	1	98	3								
	01	2												
	01	104	03	8	04	4	06	1	09	1	11	6	13	1
	25	2	35	2	36	2	60	2	73	1	76	2	83	1
	85	1	92	1										
	01	1												
	01	1	03	3	35	1								
	01	5	03	1	04	1								
	01	1												
	01	9	04	1	25	2								
	01	2	03	1	04	2	07	1	09	1				
	01	1												
	01	9	04	1	35	1								
	01	1												
	01	51	03	2	04	3	07	3	11	4	13	2	25	1
	26	1	35	5	37	2	51	1	55	2	70	2	73	1
	01	32	04	4	07	2	11	2	12	1	25	1	31	1
	36	2	37	2	44	1	49	2	51	1	58	2	71	2
	82	2	91	1	98	3								
	01	3	04	1										
	01	8	04	1	36	1								
	01	2	09	1	10	2	14	3	16	10	52	6	86	4
	01	1												
	01	11	03	2	04	4	11	2	13	2	83	2	87	1
	91	1	97	2										

(Contd.)

TABLE V : DISTRIBUTION OF SIGNS BY FIELD SYMBOLS

SIGN	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR	FS	FR
	01	1												
	01	4												
	01	6	06	1	25	2								
	01	1												
	01	3	66	1										

NOTES:

1. Abbreviations: FS: Field symbol; FR: Frequency.
2. See Code 4 (p. 30) and the List of Field Symbols (pp. 793-98) for field symbol codes. The field symbols are illustrated in Plates I-VII (pp. 799-813).
3. The frequency of occurrences is tabulated with reference to the whole of the inscribed object as the unit. Field symbols and signs are considered associated even if they occur on different sides of the same object.
4. Signs not associated with any field symbol are not included in this Table.

TABLE VI
DISTRIBUTION OF DIRECTION OF WRITING BY SITES

SITES[1]	DIRECTION OF LINES[2]				
	1	2	4	OTHERS[3]	TOTAL
MD	1533	48	4	145	1730
HP	1076	148	1	157	1382
CD	70	6	0	10	86
LL	169	15	0	14	198
KB	87	10	2	20	119
OS	26	5	0	9	40
WA	13	3	0	2	18
Total	2974	235	7	357	3573

TABLE VII
DISTRIBUTION OF DIRECTION OF WRITING BY OBJECT TYPES

OBJECT TYPES[4]	DIRECTION OF LINES[2]				
	1	2	4	OTHERS[3]	TOTAL
1 Seals	1749	69	0	150	1968
2 Sealings	601	61	0	84	746
3 Miniature tablets	362	87	0	54	503
4 Pottery graffiti	74	10	1	43	128
5 Copper tablets	139	6	0	17	162
6 Bronze implements	7	1	6	3	17
7 Ivory & bone rods	26	1	0	2	29
9 Misc. objects	16	0	0	4	20
Total	2974	235	7	357	3573

1. See Code 7 for letter codes for sites (p. 31).
2. See Code 6 for codes for direction of writing (p. 31).
3. 'OTHERS' include single-sign lines, symmetrical lines and doubtful cases.
4. See Code 2 for object type codes (p. 30).

TABLE VIII
DISTRIBUTION OF FIELD SYMBOLS BY SITES

FIELD SYMBOL CODES	SITES							
	MD	HP	CD	LL	KB	OS	WA	TOTAL
01	747	239	43	76	45	6	3	1159
02	2	2	0	0	1	0	0	5
03	46	6	0	0	2	0	0	54
04	67	11	2	5	2	0	8	95
05	2	0	0	0	0	0	0	2
06	10	3	0	0	1	0	0	14
07	37	5	1	11	1	0	0	55
08	0	0	0	0	1	0	0	1
09	14	1	0	0	0	0	1	16
10	4	0	0	0	0	1	0	5
11	36	1	0	0	1	1	0	39
12	1	0	0	0	0	0	0	1
13	27	4	1	1	2	1	0	36
14	23	0	1	0	1	1	0	26
15	0	1	0	0	0	0	0	1
16	10	0	0	0	0	0	0	10
17	0	5	0	0	0	0	0	5
18	1	0	0	0	0	0	0	1
19	0	0	0	0	0	0	1	1
20	1	0	0	0	0	0	0	1
21	2	0	0	0	0	0	0	2
22	1	0	0	0	0	0	0	1
23	1	0	0	0	0	0	0	1
24	1	0	0	0	0	0	0	1
25	18	1	0	1	0	0	0	20
26	1	0	0	0	1	0	0	2
27	1	0	0	0	0	0	0	1
28	1	0	0	0	0	0	0	1
29	9	0	0	0	0	0	0	9
30	1	0	0	0	0	0	0	1
31	1	0	0	0	1	0	0	2
32	1	0	0	0	0	0	0	1
33	1	0	0	0	0	0	0	1
34	1	0	0	0	0	0	0	1
35	37	17	1	4	3	0	0	62
36	11	36	1	0	1	0	0	49
37	0	14	0	0	0	0	0	14
38	0	1	0	0	0	0	0	1
39	0	1	0	0	0	0	0	1
40	1	0	0	0	0	0	0	1
41	1	0	0	0	0	0	0	1

(Contd.)

FIELD SYMBOL CODES	SITES							
	MD	HP	CD	LL	KB	OS	WA	TOTAL
42	9	0	0	0	0	0	0	9
43	3	1	0	0	0	0	0	4
44	6	28	0	0	0	0	0	34
45	0	1	0	0	0	0	0	1
46	0	3	0	0	0	0	0	3
47	3	0	0	0	0	0	0	3
48	1	0	0	0	0	0	0	1
49	2	0	0	0	0	0	0	2
50	0	3	0	0	0	0	0	3
51	2	2	0	0	0	0	0	4
52	6	0	0	0	0	0	0	6
53	0	3	0	0	0	0	0	3
54	0	1	0	0	0	0	0	1
55	0	1	0	0	0	0	0	1
56	1	0	0	0	0	0	0	1
57	2	0	0	0	0	0	0	2
58	2	0	0	0	0	0	0	2
59	0	1	0	0	0	0	0	1
60	0	1	0	0	0	0	0	1
61	1	0	0	0	0	0	0	1
62	0	0	1	0	0	0	0	1
63	1	0	0	0	0	0	0	1
64	1	0	0	0	0	0	0	1
65	1	0	0	0	0	0	0	1
66	1	0	0	0	0	0	0	1
67	1	0	0	0	0	0	0	1
68	0	0	0	0	1	0	0	1
69	3	0	0	0	0	0	0	3
70	0	1	0	0	0	0	0	1
71	0	1	0	0	0	0	0	1
72	0	0	1	0	0	0	0	1
73	3	1	0	0	1	0	0	5
74	1	0	0	0	0	0	0	1
75	3	0	0	0	0	0	0	3
76	0	1	0	0	0	0	0	1
77	1	0	0	0	0	0	0	1
78	1	0	0	0	0	0	0	1
79	0	1	0	0	0	0	0	1
80	1	0	0	0	0	0	0	1
81	0	0	0	0	0	0	1	1
82	1	2	0	0	0	0	0	3
83	8	57	0	1	0	1	0	67

(Contd.)

TABLE VIII : DISTRIBUTION OF FIELD SYMBOLS BY SITES

FIELD SYMBOL CODES	SITES							
	MD	HP	CD	LL	KB	OS	WA	TOTAL
84	0	1	0	0	0	0	0	1
85	0	19	0	0	0	0	0	19
86	4	0	0	0	0	0	0	4
87	2	1	0	0	0	0	0	3
88	0	1	0	0	0	0	0	1
89	0	0	0	1	0	0	0	1
90	0	3	0	0	0	0	0	3
91	0	17	0	0	0	0	0	17
92	0	3	0	0	0	0	0	3
93	0	6	0	0	0	0	0	6
94	1	0	0	0	0	0	0	1
95	1	0	0	0	0	0	0	1
96	0	1	0	0	0	0	0	1
97	24	2	0	0	0	0	0	26
98	25	0	0	0	0	0	0	25
Total	1240	511	52	100	65	11	14	1993

NOTES:

1. See Code 7 for letter codes for sites (p. 31).
2. See Code 4 (p. 30) and the List of Field Symbols (pp. 793-98) for field symbol codes. Field symbols are illustrated in Plates I-VII (pp. 799-813).

TABLE IX
DISTRIBUTION OF FIELD SYMBOLS BY OBJECT TYPES

FIELD SYMBOL CODES	OBJECT TYPES								
	1	2	3	4	5	6	7	9	TOTAL
01	1045	111	0	0	3	0	0	0	1159
02	3	2	0	0	0	0	0	0	5
03	51	3	0	0	0	0	0	0	54
04	82	10	0	0	3	0	0	0	95
05	1	1	0	0	0	0	0	0	2
06	12	1	0	0	1	0	0	0	14
07	36	12	0	0	7	0	0	0	55
08	0	1	0	0	0	0	0	0	1
09	13	2	0	0	1	0	0	0	16
10	2	0	0	0	3	0	0	0	5
11	16	17	0	0	6	0	0	0	39
12	0	1	0	0	0	0	0	0	1
13	12	6	1	0	17	0	0	0	36
14	2	1	0	0	23	0	0	0	26
15	0	1	0	0	0	0	0	0	1
16	0	0	0	0	10	0	0	0	10
17	0	0	5	0	0	0	0	0	5
18	0	1	0	0	0	0	0	0	1
19	1	0	0	0	0	0	0	0	1
20	1	0	0	0	0	0	0	0	1
21	0	2	0	0	0	0	0	0	2
22	0	1	0	0	0	0	0	0	1
23	1	0	0	0	0	0	0	0	1
24	1	0	0	0	0	0	0	0	1
25	10	9	0	0	1	0	0	0	20
26	2	0	0	0	0	0	0	0	2
27	1	0	0	0	0	0	0	0	1
28	1	0	0	0	0	0	0	0	1
29	0	0	0	0	9	0	0	0	9
30	1	0	0	0	0	0	0	0	1
31	2	0	0	0	0	0	0	0	2
32	0	1	0	0	0	0	0	0	1
33	1	0	0	0	0	0	0	0	1
34	1	0	0	0	0	0	0	0	1
35	53	8	0	0	1	0	0	0	62
36	6	30	13	0	0	0	0	0	49
37	0	6	8	0	0	0	0	0	14
38	0	1	0	0	0	0	0	0	1
39	0	0	1	0	0	0	0	0	1
40	1	0	0	0	0	0	0	0	1
41	0	1	0	0	0	0	0	0	1

(Contd.)

TABLE IX : DISTRIBUTION OF FIELD SYMBOLS BY OBJECT TYPES

FIELD SYMBOL CODES	OBJECT TYPES								
	1	2	3	4	5	6	7	9	TOTAL
42	0	9	0	0	0	0	0	0	9
43	0	3	1	0	0	0	0	0	4
44	2	32	0	0	0	0	0	0	34
45	0	1	0	0	0	0	0	0	1
46	0	0	3	0	0	0	0	0	3
47	2	1	0	0	0	0	0	0	3
48	1	0	0	0	0	0	0	0	1
49	0	2	0	0	0	0	0	0	2
50	0	3	0	0	0	0	0	0	3
51	2	1	1	0	0	0	0	0	4
52	0	0	0	0	6	0	0	0	6
53	0	3	0	0	0	0	0	0	3
54	0	1	0	0	0	0	0	0	1
55	0	1	0	0	0	0	0	0	1
56	0	1	0	0	0	0	0	0	1
57	0	2	0	0	0	0	0	0	2
58	0	2	0	0	0	0	0	0	2
59	1	0	0	0	0	0	0	0	1
60	0	1	0	0	0	0	0	0	1
61	0	1	0	0	0	0	0	0	1
62	1	0	0	0	0	0	0	0	1
63	0	1	0	0	0	0	0	0	1
64	1	0	0	0	0	0	0	0	1
65	0	1	0	0	0	0	0	0	1
66	0	1	0	0	0	0	0	0	1
67	1	0	0	0	0	0	0	0	1
68	1	0	0	0	0	0	0	0	1
69	3	0	0	0	0	0	0	0	3
70	0	1	0	0	0	0	0	0	1
71	0	1	0	0	0	0	0	0	1
72	1	0	0	0	0	0	0	0	1
73	3	2	0	0	0	0	0	0	5
74	0	1	0	0	0	0	0	0	1
75	0	3	0	0	0	0	0	0	3
76	0	1	0	0	0	0	0	0	1
77	0	1	0	0	0	0	0	0	1
78	1	0	0	0	0	0	0	0	1
79	0	1	0	0	0	0	0	0	1
80	0	1	0	0	0	0	0	0	1
81	1	0	0	0	0	0	0	0	1
82	1	2	0	0	0	0	0	0	3
83	2	3	54	0	0	0	7	1	67

(Contd.)

FIELD SYMBOL CODES	OBJECT TYPES								
	1	2	3	4	5	6	7	9	TOTAL
84	0	1	0	0	0	0	0	0	1
85	1	14	4	0	0	0	0	0	19
86	0	0	0	0	4	0	0	0	4
87	1	1	0	1	0	0	0	0	3
88	0	1	0	0	0	0	0	0	1
89	1	0	0	0	0	0	0	0	1
90	0	0	3	0	0	0	0	0	3
91	0	7	10	0	0	0	0	0	17
92	0	0	3	0	0	0	0	0	3
93	0	2	4	0	0	0	0	0	6
94	0	1	0	0	0	0	0	0	1
95	0	0	0	0	1	0	0	0	1
96	0	0	0	1	0	0	0	0	1
97	0	26	0	0	0	0	0	0	26
98	0	4	0	0	0	0	21	0	25
Total	1385	370	111	2	96	0	28	1	1993

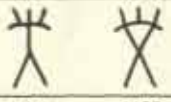
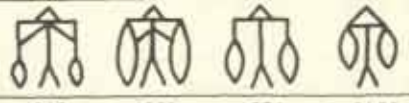
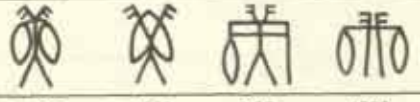
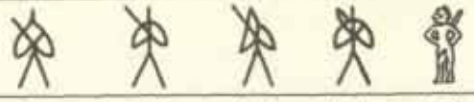
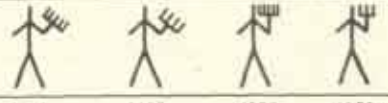
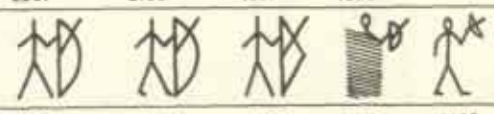
NOTES:

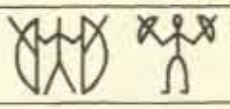
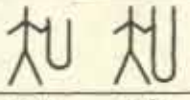
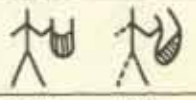
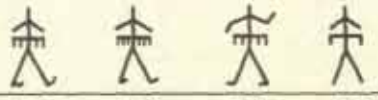
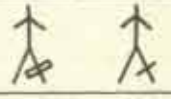
1. See Code 2 for object type codes (p. 30).
2. See Code 4 (p. 30) and the List of Field Symbols (pp. 793-98) for field symbol codes. The field symbols are illustrated in Plates I-VII (pp. 799-813).

Appendices

APPENDIX I

LIST OF SIGN VARIANTS

SIGN No.	VARIANTS
1	
	2538 1386 6122
8	
	1010 6122 7080 1393 1339
	
	1401 1407
9	
	2634 4035 1011
12	
	7053 2293 2678 1563 2569
	1360 4815 2421 8013 5515
	5123 9842
14	
	4036 1079 4254 2428
15	
	1178 1475 4029 1287 5063
	
	1436 4322 2108 1030
17	
	1011 1101 1018 1381 1905
19	
	2361 2106 1037 1050
28	
	1012 8017 1069 6116 6402

SIGN No.	VARIANTS
29	
	2049 6402
32	
	7202 2264
35	
	3248 1260
38	
	2546 2630 2058 2285
40	
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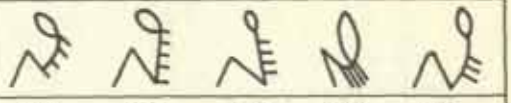
48	
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	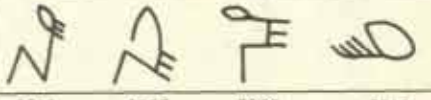
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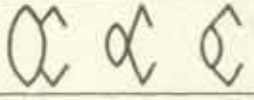
53	
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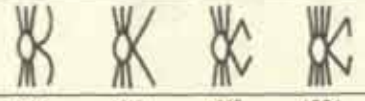
54	
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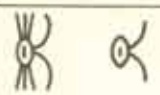
55	
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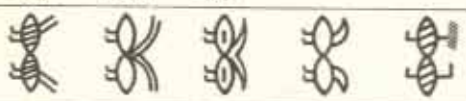
57	
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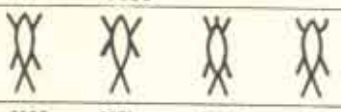
67	
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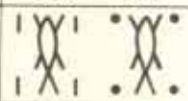
68	
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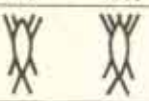
69	
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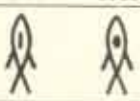
70	
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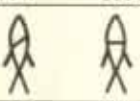
72	
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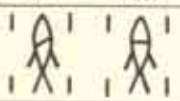
73	
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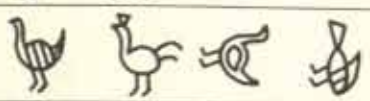
76	
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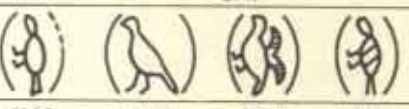
81	
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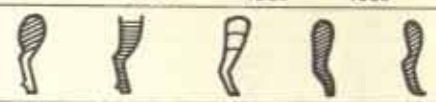
84	
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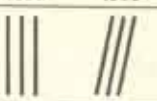
89	
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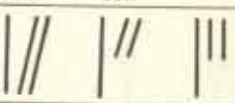
94	
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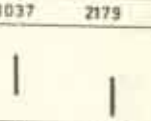
98	
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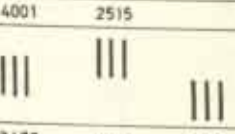
102	
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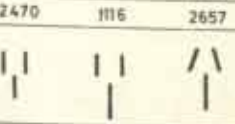
103	
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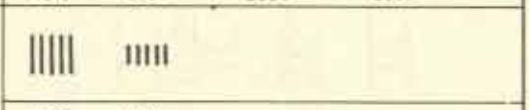
106						
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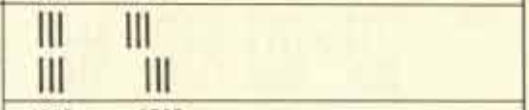
109						
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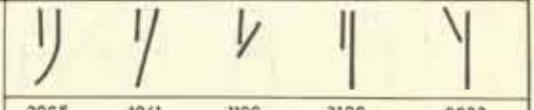
123						
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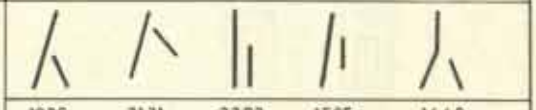
124						
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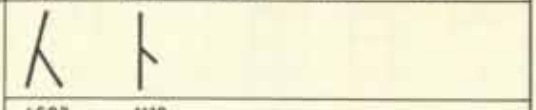
125						
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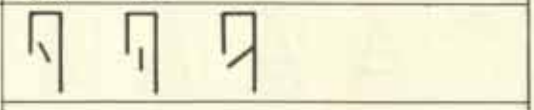
128						
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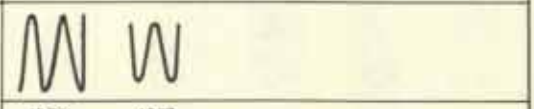
132						
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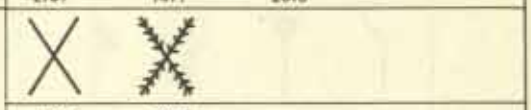
137						
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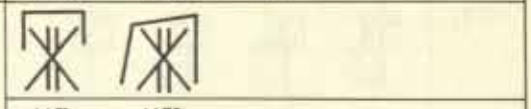
142						
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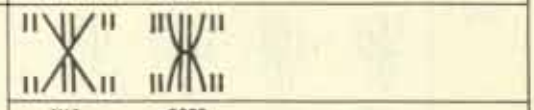
143						
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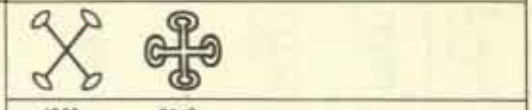
146						
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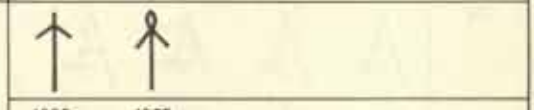
155						
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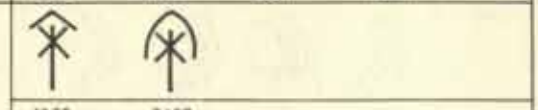
159						
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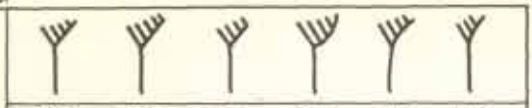
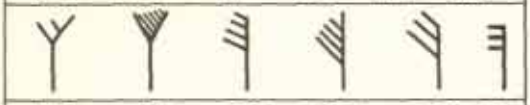
169	 1025 2525 1011 1055 1467 1006  4107 8213 4269 9061 2542 7072
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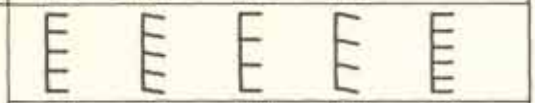
176	 1046 2674 4320 6213 1227 2121 2140 1118 8208 2289
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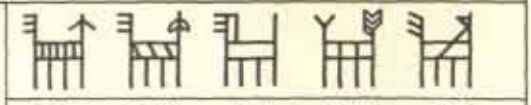
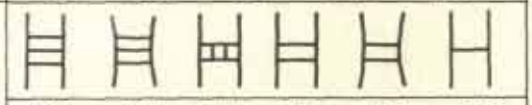
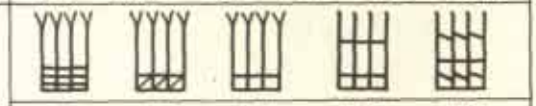
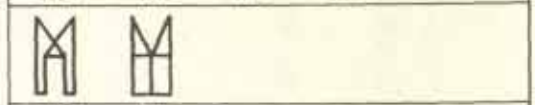
184	 3378 3398 9832 2515 2092
186	 4006 7202 3151 1191 2052 2665
190	 4091 2175 2395 4380 2077 2601
193	1058 1140 1436 2563 2562  4451 2018
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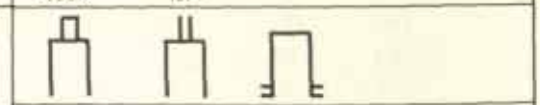
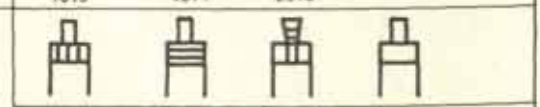
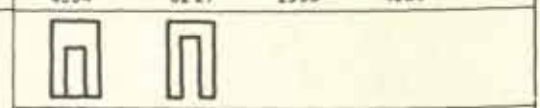
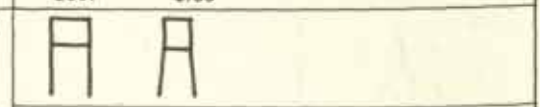
197	 1015 4271 2518
198	 4584 6227 2355 4583
201	 2661 2103
202	 1262 2654
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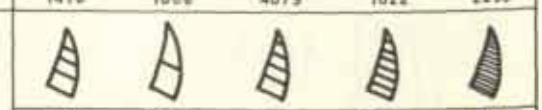
205	 4460 1090 2548 2079 6210

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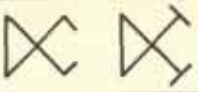
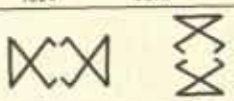
216	 1096 8212
217	 2311 8039
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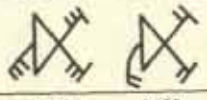
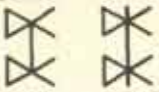
224	 4223 2459
228	 2074 6120
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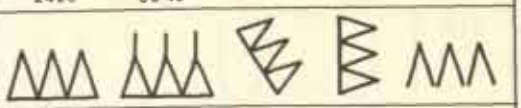
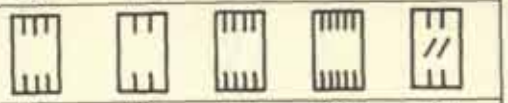
230	 1459 1054 1186 1139 4823
244	 1038 1002 4040 1337 2502
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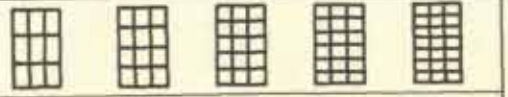
245 *Contd.*	 4002 2431 2294 4240 1004

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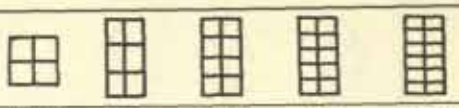
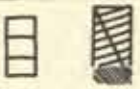
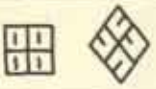
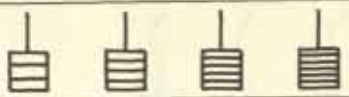
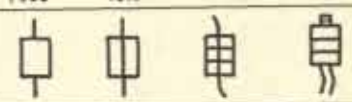
245	 1424 2072 1542 1159 1242
	 9902 8204
247	 1444 2409
252	 1463 1018 4220 1337
253	 1201 4541 1346 1054
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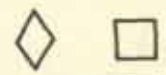
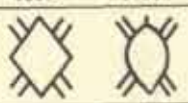
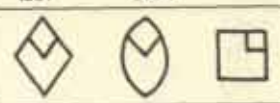
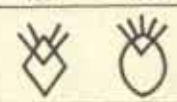
261	 4006 5090
264	 1227 2574
267	 1057 1022 8106
272	 7025 4359
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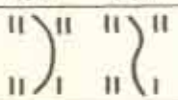
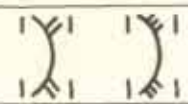
289	 1074 1162
292	 2358 5060
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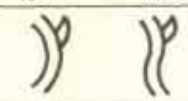
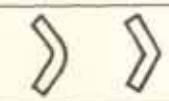
295	 2106 2471
296	 1005 1711
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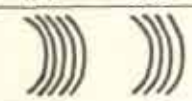
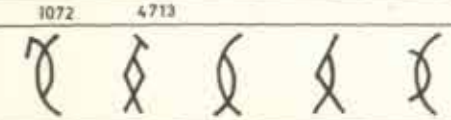
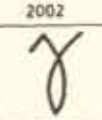
298	 1072 4713
302	 2002 1471 1444 4008 4230  3512

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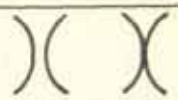
303	 1403 1209
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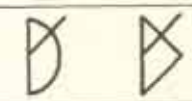
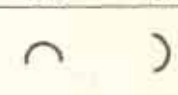
307	 1340 4573
312	 2923 4802
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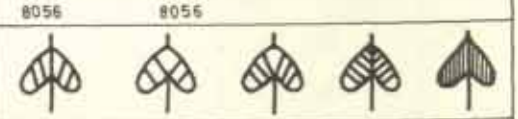
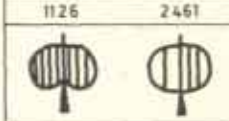
326	 1126 2461 4004 1150 1340  8121 2673
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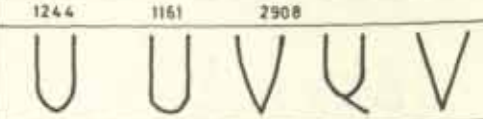
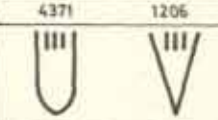
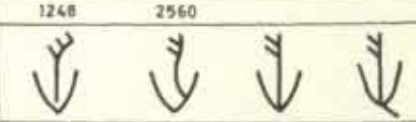
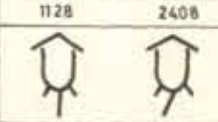
328	 4371 1206 2815 4543 4497
330	 1248 2560
331	 1128 2408 4532 4463
334	 2364 1403

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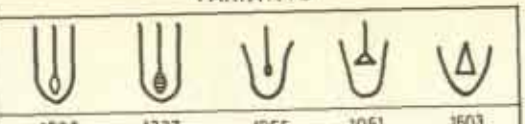
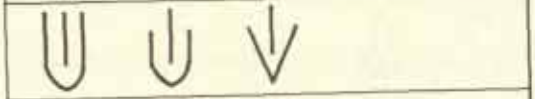
336	 1038 1337 1056 1061 1603
	 1030 1065 1094
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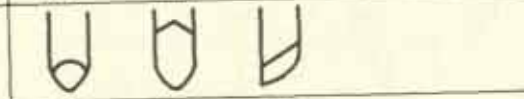
340	 4337 1494 9011
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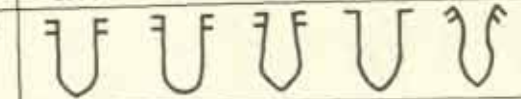
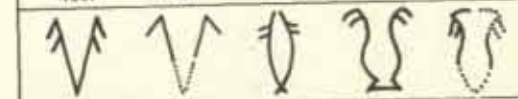
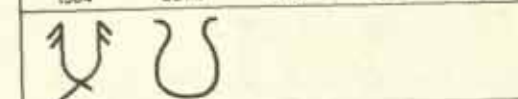
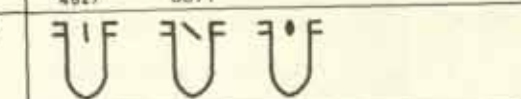
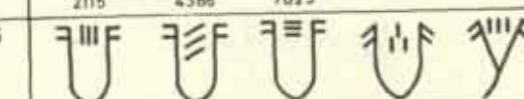
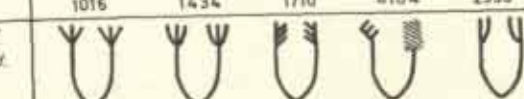
342	 4001 1401 1405 7029 1093
	 1904 2269 8206 8216 8217
	 4827 8071
343	 2115 4386 7025
345	 1016 1434 1710 6104 2936
347 *Contd.*	 1060 1093 4262 7042 1298

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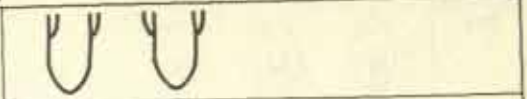
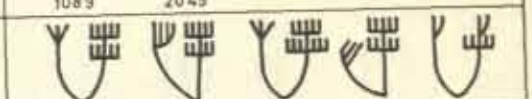
347	 1089 2045
348	 1374 2065 2414 4270 2591
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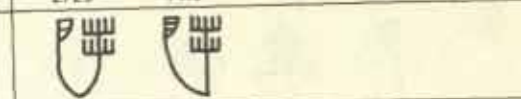
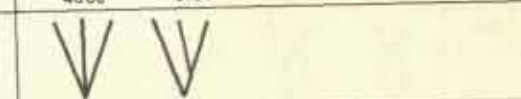
359	 4088 3102
365	 9102 4691
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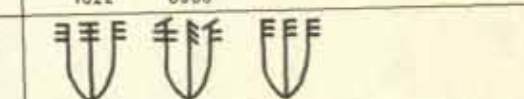
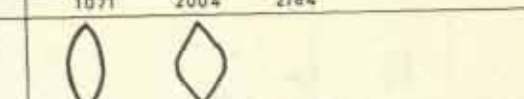
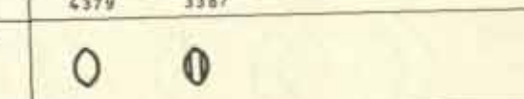
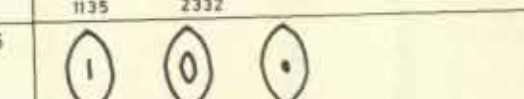
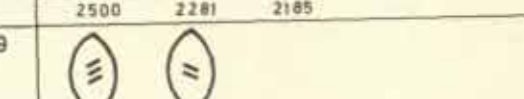
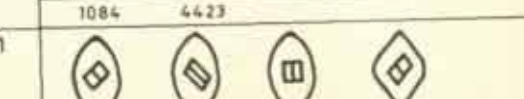
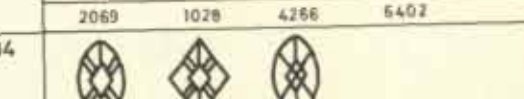
371	 1071 2004 2184
373	 4379 3387
374	 1135 2332
375	 2500 2281 2185
379	 1084 4423
381	 2069 1028 4266 6402
384	 2043 2940 4123

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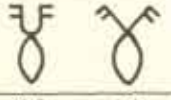
394	 2318 1394
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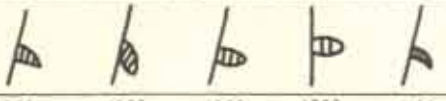
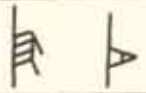
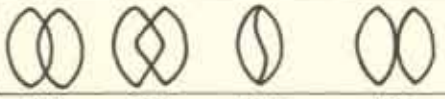
402	 1008 1036 1069 1029 1103  2373 1394
403	 1099 2363 4555 5103
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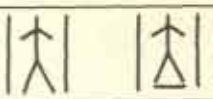
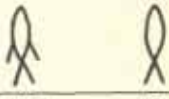
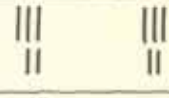
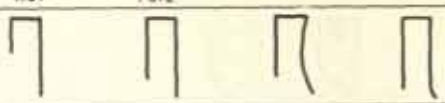
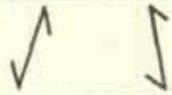
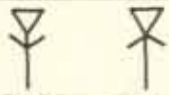
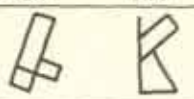
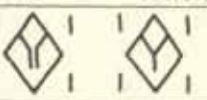
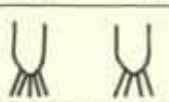
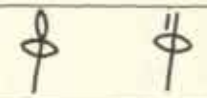
2	 1117 8059
59	 1032 8211
107	 1157 7072
127	 1004 4012 8054 8072
130	 1012 4019
181	2191 1052
213	 2086 9103
259	 1470 7301 (?)
278	 4695 8033
290	2656 3016
332	 3116 3032
400	 1012 7063

APPENDIX II

LIST OF FIELD SYMBOLS

CODE (In cols. 7-8 of *TEXTS*)	DESCRIPTION	FREQUENCY	FIG. NO. (See *PLATES*)
	A. ANIMALS		
01	Unicorn, generally facing a special cult object.	1159	1-7
02	Bull with two long horns (otherwise resembling the 'unicorn'), generally facing the special cult object.	5	8-9
03	Humped bull.	54	10
04	Short-horned bull, generally with head lowered over a trough.	95	11-13
05	Two short-horned bulls, standing face to face.	2	14
06	Buffalo, generally with a trough in front.	14	15-17
07	Elephant, sometimes with a trough in front.	55	18-20
08	Horned elephant.	1	21
09	Tiger, generally with a trough in front.	16	22-23
10	Horned tiger.	5	24-25
11	Rhinoceros, generally with a trough in front.	39	26-28
12	Two rhinoceroses, one at either end of the text.	1	29
13	Goat-antelope with a short tail (and different types of horns), sometimes with a trough in front.	36	30-38
14	Ox-antelope with a long tail, generally with a trough in front.	26	39-41
15	Two goats flanking a tree. (Not illustrated)	1	
16	Hare facing a bush.	10	42
17	Inscribed object in the shape of a hare.	5	43
	B. GROUPS OF ANIMALS		
18	Row of animals in file (a unicorn, an elephant and a rhinoceros from R.); a gharial with a fish held in its jaw above the animals; a bird (?) at R.	1	44
19	Bull mating a cow.	1	45
20	Uncertain bovine animal above, and an elephant below.	1	46
21	Row of uncertain animals in file.	2	47
22	A tiger and a rhinoceros in file.	1	48
	C. FABULOUS AND COMPOSITE ANIMALS		
23	Fabulous animal with dotted circles on its body.	1	49
24	Fabulous animal with features of an ox and a rhinoceros facing the special cult object.	1	50

CODE (In cols. 7-8 of *TEXTS*)	DESCRIPTION	FREQUENCY	FIG. NO. (See *PLATES*)
25	Fabulous animal with the body of a ram, horns of a bull, trunk of an elephant, hindlegs of a tiger and an upraised serpent-like tail.	20	51
26	Fabulous animal with the body of a tiger, a human head and horns of an antelope.	2	52-53
27	Head of a unicorn attached to an uncertain five-pointed symbol.	1	54
28	Two heads of unicorns, joined end to end, under a stylised pipal tree.	1	55
29	Fabulous animal of uncertain description with two heads, one at either end of the body.	9	56
30	Fabulous animal with the body of an ox and three heads, viz. two of antelopes (one looking forward and the other backward) and one of a short-horned bull (looking downward).	1	57
31	Fabulous animal with the body of an ox and three heads, viz. one each of unicorn (looking forward), antelope (looking backward) and short-horned bull (looking downward).	2	58-59
32	Fabulous animal as described in FS. No. 31 at R; a goat standing on its hindlegs and browsing from a tree at the centre.	1	60
33	Composite motif made up of three tigers joined together.	1	61
34	Composite motif consisting of six heads of animals (viz. those of unicorn, short-horned bull, antelope, tiger and of two other uncertain animals) radiating outwards from a ring.	1	62
35	Uncertain animal (mostly bovine) in the field. (Not illustrated)	62	
	D. REPTILES, FISH, BIRDS, ETC.		
36	Gharial, sometimes with a fish held in its jaw and/or surrounded by a school of fish.	49	63-67
37	Inscribed object in the shape of a fish.	14	68
38	Tortoise.	1	69
39	Inscribed object in the shape of a tortoise.	1	70
40	Frog.	1	71
41	Serpent, partly reclining on a low platform under a tree.	1	72
42	Serpent (?) entwined around a pillar with capital (?); (the motif is always carved in high relief on the reverse side of the inscribed object).	9	73
43	Bird in flight.	4	74

CODE (In cols. 7-8 of *TEXTS*)	DESCRIPTION	FREQUENCY	FIG. NO. (See *PLATES*)
	E. TREES AND LEAVES		
44	Kino tree, generally within a railing or on a platform.	34	75-77
45	Rosette of pipal leaves.	1	78
46	Inscribed object in the shape of a pipal leaf.	3	79
	F. ANTHROPOMORPHIC (DIVINE, SEMI-DIVINE OR HUMAN) FORMS		
47	Horned personage seated on a pedestal.	3	80
48	Horned personage (with three visible faces) seated on a pedestal and surrounded by five animals, viz. rhinoceros, buffalo, antelope, tiger and elephant (from R.).	1	81
49	Personage seated on a pedestal flanked on either side by a kneeling adorant and a hooded serpent rearing up.	2	82
50	Personage wearing a diadem or tall head-dress standing between two posts or under an ornamental arch.	3	83-85
51	Standing personage with horns and bovine features (hoofed legs and/or tail).	4	86-88
52	Standing personage with horns and bovine features, holding a bow in one hand and an arrow or an uncertain object in the other.	6	89
53	Standing personage with horns and bovine features holding a staff or mace on his shoulder.	3	90
54	Person carrying the special cult object (the so-called 'manger' or 'incense-burner').	1	91
55	Man armed with a sickle-shaped weapon facing a seated woman with dishevelled hair and upraised arms.	1	92
56	Drummer (?) flanked by two persons. (Not illustrated)	1	
57	Three dancing figures in a row.	2	93
58	Four persons in a procession, each carrying a standard, one of which has the figure of a unicorn on top.	2	94
59	Seven robed figures standing in a row.	1	95
	G. 'SCENES' WITH ANTHROPOMORPHIC AND ANIMAL FIGURES, TREES AND OTHER OBJECTS		
60	Person standing at the centre between a two-tiered structure at R., and a short-horned bull standing near a trident-headed post at L.	1	96
61	Person standing at the centre pointing with his right hand at a short-horned bull facing a trough, and with his left hand at the sign .	1	97

CODE (In cols. 7-8 of *TEXTS*)	DESCRIPTION	FREQUENCY	FIG. NO. (See *PLATES*)
62	Short-horned bull trampling a prostrate person underneath.	1	98
63	Person throwing a spear at a short-horned bull and placing one foot on the head of the animal; a hooded serpent at L.	1	99
64	Person throwing a spear at a buffalo and placing one foot on its head.	1	100
65	Person throwing a spear at a buffalo and placing one foot on its head; three persons standing near a tree at the centre.	1	101
66	Group of persons vaulting over an uncertain bovine animal.	1	102
67	Horned (female?) personage with a tail and bovine legs standing near a kino tree attacking a horned tiger rearing on its hindlegs.	1	103
68	Fabulous personage with a composite body of a human (female?) being in the upper half and of a tiger in the lower half, having horns, and a trident-like head-dress, facing a group of three persons consisting of a woman (?) in the middle flanked by two men on either side throwing a spear at each other over her head.	1	104
69	Person grappling with two tigers standing on either side of him and rearing on their hindlegs.	3	105
70	Nude female figure upside down with thighs drawn apart and a crab (?) issuing from her womb; two tigers standing face to face rearing on their hindlegs at L.	1	106
71	Drummer and a tiger.	1	107
72	Person kneeling under a kino tree facing a tiger.	1	108
73	Person seated on a *machan* on a kino tree; a tiger below looking up at him.	5	109
74	From R.—a fabulous animal as in FS. No. 25; a person seated on a tree with a tiger below; a *svastikā* within a square border; an elephant.	1	110
75	From R.—a woman (?) with outstretched arms flanked by two men holding uprooted trees in their hands; a person seated on a tree with a tiger below; a tall jar with a lid.	3	111
76	From R.—a tiger (?); a goat; a seated personage on a pedestal; a person seated on a tree with a tiger below.	1	112
77	From R.—a horned personage standing between two branches of a pipal tree; a ram; a horned personage kneeling in adoration; a low pedestal with some offerings.	1	113

CODE (In cols. 7-8 of *TEXTS*)	DESCRIPTION	FREQUENCY	FIG. NO. (See *PLATES*)
78	From R.—a horned personage standing between the branches of a pipal tree; a low pedestal with some offerings; a horned personage kneeling in adoration; a ram; a row of seven robed figures in the lower register.	1	114
79	From R.—a personage standing under an ornamental arch; a kneeling adorant; a ram.	1	115
80	From R.—a person holding a vessel; a woman with a platter (?); a kneeling person with a staff in his hands facing the woman; a goat with its forelegs on a platform under a kino tree.	1	116
81	In the upper register from R.—a person grappling with two animals (tigers?); a horned personage standing behind a pedestal; a kino tree;		
	In the lower register from R.—a bird in flight over a unicorn; an antelope; two short-horned bulls facing each other.	1	117
	H. VARIOUS SYMBOLS AND MOTIFS		
82	The *Svastikā*, generally within a square or rectangular border.	3	118-119
83	One or more dotted circles.	67	120
84	Lozenge within a circle with a dot in the centre.	1	121
85	The special cult object (the so-called 'manger' or 'incense-burner').	19	122-123
86	The 'endless knot' motif.	4	124
87	Boat.	3	125
88	Anchor (?)	1	126
89	A large device in the upper register showing a number of small circles in three rows with another row of short vertical lines below (identified as a 'seed-drill'?)	1	127
90	Inscribed object in the shape of a heart (?)	3	128
91	Inscribed object in the shape of a double-shield or double-axe (?)	17	129
92	Inscribed object in the shape of a writing tablet (?)	3	130
93	Inscribed object in the shape of a crescent.	6	131
94	Radiating solar symbol.	1	132
95	Double-axe (?) without shaft.	1	133
96	Motif in a pottery graffito showing a rectangular enclosure with four marks within looking like X and V.	1	134
97	Different geometrical patterns generally occupying the whole field on one side of the inscribed object.	26	135-139

CODE (In cols. 7-8 of *TEXTS*)	DESCRIPTION	FREQUENCY	FIG. NO. (See *PLATES*)
98	Different ornamental borders of geometrical patterns at either or both ends of a text or along the edges.	25	140-145
99	Damaged or illegible field symbol. (Not illustrated)	36	
00	No field symbol on the side.		

NOTES:

1. See Plates I-VII (pp. 799-813) for illustrations of field symbols (including variants).
2. R and L denote right and left with respect to impressions of seals and the originals in other cases.
3. The List does not include field symbols occurring only on objects without inscriptions.

APPENDIX III

ILLUSTRATIONS OF FIELD SYMBOLS

The field symbols are illustrated in Plates I – VII (pp. 800-13). Keys to the illustrations will be found on the pages facing the Plates. The List of Field Symbols (pp. 793-98) and the List of Inscribed Objects (pp. 816-29) provide the respective codes.

2. At least one illustration is given for each field symbol (except for FS. No. 15 and 56 for which no suitable photographs or drawings were available). There are also no illustrations for FS. No. 35 and 99 which relate to damaged or illegible field symbols. An effort has been made to provide illustrations of all significant variants of each field symbol.

3. Seals have been generally illustrated from photographs of impressions. Where photographs of the original seals had to be used, the photographs have been reversed to indicate the correct orientation of the field symbols (and also of the texts); cf. Figs. 9, 24, 27, 35, 36, 53, 59 and 127. (Figs. 110 and 113 reproduced from *FEM*, Pl. LXXXII, 1(a)&(c) show two sides of a sealing; but these have also been reversed as the illustrations in the source publication are from impressions.) Figs. 104 and 117 illustrate impressions made from cylinder seals. Drawings from the source publications have been reproduced in respect of items which are difficult to photograph; cf. Figs. 4, 30, 33, 39, 42, 56, 89 and 124 (copper tablets); 142, 143 and 144 (bone or ivory rods) and 145 (sealing).

4. Where an object has more than one field symbol occurring on different sides, the number of the side on which the illustrated field symbol is found, is indicated by the number placed after a full point following the reference number (e.g. 2844.1).

5. Sources of illustrations are acknowledged in the keys to the Plates. In general, the sources are the same as for the texts accompanying the field symbols. See the List of Sources for the Texts (pp. 814-15) for abbreviations and the List of Inscribed Objects (pp. 816-29) for codes. However, in respect of items indicated by the asterisk (*) in the keys to the Plates, sources for the illustrations are different as indicated therein. Different sources (generally, the original objects or unpublished photographs) have been used in these cases to secure better illustrations.

6. The scale of illustrations is generally the same as in the sources referred to. However, Figs. 72, 86, 93 and 99 are enlarged (to twice the size of the originals) to bring out the details. Fig. 134 has been reduced to about half the size of the illustration found in *EH*, Pl. CI, 713.

7. *Acknowledgements*

Photograph for Fig. 24 is by the courtesy of the Department of Archaeology, Haryana. Photographs for Figs. 72, 75, 93 and 99 are by the courtesy of the National Museum, New Delhi. All other photographs have been supplied by the Director-General, Archaeological Survey of India, New Delhi, whose assistance is gratefully acknowledged.

KEY TO PLATE I

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
1	01	1038	*MIC*, Pl. CIV, 38
2	01	2008	*FEM*, Pl. LXXXIII, 8
3	01	1091	*MIC*, Pl. CVI, 91
4	01	1710	*MIC*, Pl. CXVII, 10
5	01	2316	*FEM*, Pl. LXXXVIII, 316
6	01	1093	*MIC*, Pl. CVI, 93
7	01	1167	*MIC*, Pl. CVIII, 167
8	02	2234	*FEM*, Pl. LXXXVII, 234
9	02	8022	*IAR*: 1963-64: Pl. XXIII-A
10	03	1337	*MIC*, Pl. CXI, 337
11	04	2123	*FEM*, Pl. LXXXV, 123
12	04	9903	*JRAS*, 1932, p. 48
13	04	2229	*FEM*, Pl. LXXXVII, 229
14	05	2661	*FEM*, Pl. XCIX, 661
15	06	2696	*FEM*, Pl. LXXXII, 696
16	06	3163	Si. 22: 461
17	06	2663	*FEM*, Pl. XCIX, 663
18	07	1369	*MIC*, Pl. CXII, 369
19	07	2648	*FEM*, Pl. XCIX, 648

PLATE I

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KEY TO PLATE II

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
20	07	8072	ASI: WC
21	08	8106.1	*IAR*: 1960-61: Pl. XLVIII-B
22	09	1351	*MIC*, Pl. CXI, 351
23	09	2518	*FEM*, Pl. XCVI, 518
24	10	9201	DAH
25	10	2360	*FEM*, Pl. LXXXIX, 360
26	11	1342	*MIC*, Pl. CXI, 342
*27	11	8011	ASI 68.1.61
28	11	2651	*FEM*, Pl. XCIX, 651
*29	12	2844.1	ASI (DK 9073)
30	13	1803	*MIC*, Pl. CXVIII, 3
31	13	2606	*FEM*, Pl. XCVIII, 606
32	13	1302	*MIC*, Pl. CX, 302
33	13	1801	*MIC*, Pl. CXVIII, 1
34	13	2554	*FEM*, Pl. XCVII, 554
35	13	7025	*IAR*: 1956-57: Pl. XIV-D
36	13	6402	*ES*, Pl. XVII, 38
37	13	2565	*FEM*, Pl. XCVII, 565
38	13	2673	*FEM*, Pl. XCIX, 673

PLATE II

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KEY TO PLATE III

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
39	14	1804	*MIC*, Pl. CXVIII, 4
40	14	6121	*CE*, Pl. LI, 21
*41	14	8121	ASI 68.1.71
42	16	1706	*MIC*, Pl. CXVII, 6
43	17	4425	*EH*, Pl. XCV, 425
44	18	2805.2	*FEM*, Pl. XC, 13(b)
45	19	9902	*PBA*: 18(1932): Pl. I. 18
46	20	1376	*MIC*, Pl. CXII, 376
*47	21	1626	Si. 9:452
*48	22	2841.2	*FEM*, Pl. CIII, 13
49	23	1385	*MIC*, Pl. CXII, 385
50	24	2140	*FEM*, Pl. LXXXV, 140
51	25	2521	*FEM*, Pl. XCVI, 521
52	26	2347	*FEM*, Pl. LXXXIX, 347
*53	26	8031	ASI 68.1.8
54	27	2641	*FEM*, Pl. XCVIII, 641
55	28	1387	*MIC*, Pl. CXII, 387
56	29	1703	*MIC*, Pl. CXVII, 3
57	30	1382	*MIC*, Pl. CXII, 382
58	31	2024	*FEM*, Pl. LXXXIII, 24
*59	31	8039	ASI 68.1.3
60	32	2819.3	*FEM*, Pl. XCI, 4(c)
61	33	1386	*MIC*, Pl. CXII, 386

PLATE III

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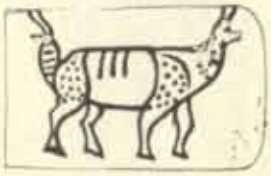

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KEY TO PLATE IV

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
62	34	1383	*MIC*, Pl. CXII, 383
63	36	4334	*EH*, Pl. XCIV, 334
64	36	2133	*FEM*, Pl. LXXXV, 133
65	36	1620	*MIC*, Pl. CXVI, 20
66	36	5305	*AJ*, No.3, Pl. LII, B.1
67	36	6233	*CE*, Pl. LII, 33
68	37	5496	ASI 63.11.196(49.255.21)
*69	38	4663	ASI(Exc.No.11341)
70	39	4426	*EH*, Pl. XCV, 426
71	40	2045.4	*FEM*, Pl. LXXXIII, 45
*72	41	2846	NM 153
*73	42	2806.2	Si. 22: 486
*74	43	2868.2	*FEM*, Pl. CIII, 15
*75	44	5282	NM 36
76	44	2604	*FEM*, Pl. XCVIII, 604
*77	44	2815.1	*FEM*, Pl. XC, 24(a)
78	45	4664	*EH*, Pl. C, 664
79	46	4417	*EH*, Pl. XCV, 417
80	47	2222	*FEM*, Pl. LXXXVII, 222
81	48	2420	*FEM*, Pl. XCIV, 420
82	49	1629	*MIC*, Pl. CXVI, 29
83	50	4307	*EH*, Pl. XCIII, 307
84	50	4317.2	*EH*, Pl. XCIII, 317
85	50	4318	*EH*, Pl. XCIII, 318
*86	51	5471.4	ASI 63.11.209
87	51	4319	*EH*, Pl. XCIII, 319
88	51	1227.3&4	*MIC*, Pl. CXI, 356

PLATE IV

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KEY TO PLATE V

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
89	52	2914	*FEM*, Pl. XCIII, 14
90	53	4305	*EH*, Pl. XCIII, 305
91	54	4309.1	*EH*, Pl. XCIII, 309
92	55	4304.2	*EH*, Pl. XCIII, 304
*93	57	2843.2	NM 1284
94	58	1608	*MIC*, Pl. CXVI, 8
95	59	4251	*EH*, Pl. XCI, 251
96	60	4303.1	*EH*, Pl. XCIII, 303
*97	61	2841.1	Si. 18: 623
98	62	6113	*CE*, Pl. LI, 13
*99	63	2835.3	NM 151
100	64	2279	*FEM*, Pl. LXXXVIII, 279
101	65	2819.1	*FEM*, Pl. XCI, 4(a)
102	66	2827	*FEM*, Pl. XCI, 12
103	67	1357	*MIC*, Pl. CXI, 357
104	68	8024	*IAR*: 1963-64: Pl. XXIII, B
105	69	2075	*FEM*, Pl. LXXXIV, 75

PLATE V

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KEY TO PLATE VI

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
106	70	4304.1	*EH*, Pl. XCIII, 304
107	71	4306.1	*EH*, Pl. XCIII, 306
108	72	6118	*CE*, Pl. LI, 18
109	73	2522	*FEM*, Pl. XCVI, 522
110	74	2802.2	*FEM*, Pl. LXXXII, 1(a)
*111	75	2815.2	*FEM*, Pl. XC, 24(b)
112	76	4303.2	*EH*, Pl. XCIII, 303
113	77	2802.3	*FEM*, Pl. LXXXII, 1(c)
114	78	2430	*FEM*, Pl. XCIV, 430
115	79	4316	*EH*, Pl. XCIII, 316
116	80	2805.3	*FEM*, Pl. XC, 13(c)
117	81	9905	*Iraq*: III (1936): p.101, Fig.1
118	82	1311.2	*MIC*, Pl. CXIV, 508
119	82	4306.2	*EH*, Pl. XCIII, 306
120	83	4575	*EH*, Pl. XCVII, 575
121	84	4377	*EH*, Pl. XCV, 377
122	85	4256	*EH*, Pl. XCI, 256
*123	85	4322	Pu. 35: 3853
124	86	2904	*FEM*, Pl. XCIII, 4

PLATE VI

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KEY TO PLATE VII

FIG. NO.	FS CODE	REF. NO.	SOURCE OF ILLUSTRATION
*125	87	3246.3	*LIC*, Pl. XXXV-C
126	88	4341	*EH*, Pl. XCIV, 341
127	89	7057	*IAR*: 1957-58: Pl. XX.3
128	90	4418.1	*EH*, Pl. XCV, 418
129	91	4407	*EH*, Pl. XCV, 407
130	92	4416	*EH*, Pl. XCV, 416
131	93	4387	*EH*, Pl. XCV, 387
132	94	1607.2	*MIC*, Pl. CXVI, 18
133	95	3413	ASI 63.10.419
134	96	4713	*EH*, Pl. CI, 713
135	97	2830	*FEM*, Pl. XCI, 15(b)
136	97	2808.5 & 6	*FEM*, Pl. XC, 16(b)
*137	97	2839	Si. 22: 466
*138	97	2806.1	Si. 22: 484
139	97	5326	Pu. 63: 4395
140	98	1616	*MIC*, Pl. CXVI, 16
*141	98	2942	Si. 21: 294
142	98	2943.1	*FEM*, Pl. CX, 44
143	98	2948	*FEM*, Pl. CXXV, 9
144	98	3505	*Exp.*, 9:4(1967), p.38
145	98	2866	*FEM*, Pl. CII, 13

PLATE VII

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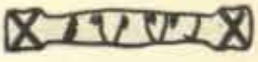
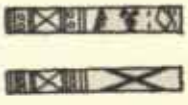
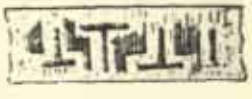


142



143

144



145

APPENDIX IV
LIST OF SOURCES FOR THE TEXTS

ABBREVIATIONS	TITLES

I. BOOKS

AOS — *Ancient Oriental Seals in the Collection of Mr. Edward T. Nevell*
Van der Osten, M.H.
Oriental Institute Publication No.XXII
Chicago (1934)

ARM — *Archaeological Remains, Monuments and Museums*
Archaeological Survey of India
New Delhi (1964)

ASH — *Ancient Seals of Haryana (Haryane ke Prachin Mudrank)*
Swami Omananda Saraswati
Haryana Prantiya Puratattva Sangrahalaya
Gurukul Jhajjar (1975)

CCO — *Catalogues des Cylindres Orient.*
Musee du Louvre
Paris (1920)

CE — *Chanhudaro Excavations (1935-36)*
Mackay, E.J.H.
New Haven (1943)

CHI — *The Cambridge History of India,* vol. I, (1922 edn.)

EH — *Excavations at Harappa,* 2 vols.
Vats, M.S.
Calcutta (1940)

ES — *Explorations in Sind*
Majumdar, N.G.
Memoirs of the Archaeological Survey of India, No. 48
New Delhi (1934)

FA — *Fouilles d'Amri,* 2 vols.
Casal, J.M.
Paris (1964)

FEM — *Further Excavations at Mohenjodaro,* 2 vols.
Mackay, E.J.H.
New Delhi (1937-38)

ICWC — *India's Contribution to World Thought and Culture*
A Vivekananda Commemoration Volume
Madras (1970)

KD — *Preliminary Report on Kot Diji Excavations (1957-58)*
Khan, F.A.
Department of Archaeology
Karachi

LIC — *Lothal and the Indus Civilization*
Rao, S.R.
Bombay (1973)

MIC — *Mohenjodaro and the Indus Civilization,* 3 vols.
Marshall, J.
London (1931)

ABBREVIATIONS	TITLES

II. PERIODICALS

AI	*Ancient India* Bulletin of the Archaeological Survey of India
AO	*Acta Orientalia*
ARASI	*Annual Reports of the Archaeological Survey of India*
ASIR	*Archaeological Survey of India Reports* (of A. Cunningham)
BBM	*Bulletin of the Baroda Museum*
Exp.	*Expedition* Bulletin of the University Museum, University of Pennsylvania
IA	*The Indian Antiquary*
IAR	*Indian Archaeology: A Review*
ILN	*The Illustrated London News*
	Iraq
JRAS	*Journal of the Royal Asiatic Society of Great Britain and Ireland*
LK	*Lalit Kala*
PBA	*Proceedings of the British Academy*
PT	*Puratattva*
RA	*Revue d'Assyriologie*

III. PHOTOGRAPHS

(a) Photographic Albums in the Photo Library of the Director-General of Archaeology, Archaeological Survey of India, New Delhi:

KB	Kalibangan series, vol. 1 (1961)
MP	Miscellaneous Photographs series, vol. 1 (1954-55)
Pu.	Punjab series, vol. 21 (1914-15) to vol. 65 (1941-42)
Si.	Sind series, vol. 3 (1922-25) to vol. 26 (1935-40)

(b) Photographs from Museums:

Ash. Mus.	Ashmolean Museum, Oxford
V & A Mus.	Victoria & Albert Museum, London

IV. ORIGINAL UNPUBLISHED OBJECTS COPIED FROM MUSEUMS

ASI	Archaeological Survey of India, New Delhi
ASI : WC	Archaeological Survey of India, Western Circle, Baroda
Bar. Mus.	Baroda Museum
DAH	Department of Archaeology, Haryana State, Chandigarh
GMM	Government Museum, Madras
IMC	Indian Museum, Calcutta
NM	National Museum, New Delhi

APPENDIX V

LIST OF INSCRIBED OBJECTS

This List provides documentation for 2906 Harappan objects bearing inscriptions in the Indus Script included in the present volume.

2. Each object is given a reference number in four digits, which also serves to denote the text inscribed on the object. The reference numbers run from 1001 to 9905, but not continuously. The inscribed objects are arranged according to sites and sources in the following 9 series indicated by the first digit of the reference number:

1. Mohenjodaro (objects illustrated in *MIC.* vol. III)
2. Mohenjodaro (objects illustrated in *FEM.* vol. II)
3. Mohenjodaro (other objects)
4. Harappa (objects illustrated in *EH.* vol. II)
5. Harappa (other objects)
6. Chanhudaro
7. Lothal
8. Kalibangan
9. Other sites and West Asian finds

3. In order to facilitate quick reference to the major source publications (*MIC, FEM, EH* and *CE*), the reference numbers are keyed, to the extent possible, to the continuous serial numbers given in the plates of these publications.

The arrangement is summarised below:

PLATE NUMBERS IN MAJOR SOURCE PUBLICATIONS	CORRESPONDING REFERENCE NUMBERS
(a) *MIC*, vol.III,	
Pl.CIII-CXV, 1-560	1001 – 1560
Pl.CXVI, 2-30	1602 – 1630
Pl.CXVII, 1-15	1701 – 1715
Pl.CXVIII, 1-13	1801 – 1813
(b) *FEM*, vol.II,	
Pl.LXXXII-XCIX,2-704	2002 – 2704
(c) *EH*, vol.II,	
Pl.LXXXV-CI, 1-713	4001 – 4713
Pl.CII-CIV, 1-84	4801 – 4884
(d) *CE*	
Pl.LI, 4-33	6104 – 6133
Pl.LII, 1-35	6201 – 6235

4. The following other conventions have been adopted in arrangement and enumeration of objects in the List:—

(i) Objects not bearing any inscription have been excluded.

(ii) Where different plate numbers have been given in the source publications to different sides of the *same* object, the number occurring first is treated as referring to the whole object. e.g. 1227 for *MIC* 227, 230 and 356).

(iii) Where plate numbers in the source publications have alphabetical suffixes (-a, -b, -c etc.), fresh reference numbers have been allotted to the objects immediately after the main series. e.g. 1561 for *MIC* 526-b, 2705 for *FEM* 604-b, 4714 for *EH* 365-a, etc.)

(iv) Where an object is illustrated more than once in the source publication, only one reference is cited, generally to the first number in the plates. Multiple illustrations of same objects may refer to originals and impressions, photographs of actual size and enlargements or to photographs and drawings. Occasionally, the source publications illustrate the same object twice by oversight. In these cases only the first entry is listed. e.g. 1410 for *MIC* 410 and 428; 2199 for *FEM* 199 and 212; 4808 for *EH* CII.8 and CIII.47 etc.)

(v) Objects taken from sources other than the four major publications mentioned above are arranged according to sites and, within each site, according to types. The arrangement within each type is in the order of excavation numbers, where these are available. In the absence of excavation numbers, objects are arranged according to source publications or photo-negative numbers or the museum numbers of the original objects, in that order.

(vi) In several cases, the same excavation number is given to more than one object. In such cases, numeral suffixes (1), (2), etc., have been added in this List.

(vii) A query indicates doubt due to discrepant records.

(viii) The mode of reference to the unpublished objects taken from the ASI Photo Library is illustrated below:

Pu.36:3884	Punjab Series, Vol.XXXVI, Photo-negative No.3884
Si.18:599	Sind Series, Vol.XVIII. Photo-negative No.599

5. Sources for the texts (pp. 814-15) have been listed separately along with the abbreviations used for the titles etc. The following other abbreviations are used in the present List:

Exc.: Excavation; Mus.: Museum; Ph.: Photograph; prob.: probably; prov.: provenance; Publ.: Publication; resp.: respectively; WA: West Asia.

MOHENJODARO

1. ITEMS IN *MIC.*vol.III

REF. NO.	PL. NO.	ITEM NO.
1001–1560	CIII–CXV	1-560 resp.
1561	CXIV	526-b
1563	CXV	557-b
1602–1630	CXVI	2-30 resp.
1701–1715	CXVII	1-15 resp.
1801–1813	CXVIII	1-13 resp.
1902	LXXVIII	3
1903	XC	5
1904		7
1905	CXXXII	10

2. ITEMS IN *FEM.*vol.II

REF. NO.	PL. NO.	ITEM NO.
2002–2704	LXXXII–XCIX	2-704 resp.
2705	XCVIII	604-b
2706	XCIX	686-c
2802	LXXXII	1
2804		6
2805	XC	13
2806		14
2807		15
2808		16
2809		17
2810		18
2812		20
2813		21
2814		22
2815		23
2818	XCI	3
2819		4
2820		5
2821		6
2822		7
2824		9
2825		10
2826		11
2827		12
2830		15
2831	XCI	16
2835		20
2836		21
2837		22
2839	XCII	7
2841	CI	1
2842		2
2843		3

2. ITEMS IN *FEM.*vol.II—*Contd.*

REF. NO.	PL. NO.	ITEM NO.
2844	CI	4
2845		5
2846		6
2847		7
2848		8
2849		9
2851		11
2852		12
2854		14
2855		15
2856	CII	2
2857		3
2858		4
2860		6
2861		7
2862		8
2863		9
2864		10
2865		12
2866		13
2867		14
2868		15
2901	XCIII	1
2902		2
2903		3
2904		4
2905		5
2906		6
2907		7
2908		8
2909		9
2910		10
2911		11
2912		12
2913		13
2914		14
2915	CIII	1
2916		2
2917		3
2918		4
2919		5
2920		6
2921		7
2923	CXXVI	2
2924		3
2925		5
2926	CXXVII	1
2928	CXXXIII	1
2929	LVII	35,38,41
2930		36,42

(Contd.)

MOHENJODARO—*Contd.*

2. ITEMS IN *FEM.* vol.II—*Contd.*

REF. NO.	PL. NO.	ITEM NO.
2931	LVIII	4
2934	LXIII	1
2935		3
2936		6
2937	LXVII	5
2938	LXIX	4,5
2939	LXXI	15
2940	CIII	17
2941		18
2942		19
2943	CX	44
2944		45
2945		48
2946		51
2947		52
2948	CXXV	9
2949		11
2950	CXXXVIII	44
2951	CXXXIX	20
2952	CXI	35

3. OTHER ITEMS FROM MD.

(a) SEALS

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
3001	BJ 25	Si.18:599
3002	BJ 29	Si.18:597
3010	DK 210	Si.12:547
3015	DK 3287	Si.22:451
3016	DK 3861	Si.14:273
3019	DK 4596	Si.14:277
3020	DK 4811	Si.18:584
3021	DK 4883	Si.18:584
3022	DK 5180	Si.18:584
3023	DK 5214	Si.18:584
3024	DK 5224	Si.18:584
3028	DK 5496	Si.18:617
3031	DK 5654	Si.18:589
3032	DK 5800	Si.18:586
3035	DK 5823(2)	Si.18:586
3036	DK 5981	ASI 63.10.42
3037	DK 6172	Si.18:603
3038	DK 6211	Si.18:603
3039	DK 6331	ASI 63.10.148
3041	DK 6511	Si.18:597
3042	DK 6600	Si.18:588
3044	DK 6817	Si.18:590
3051	DK 7134	Si.18:615
3052	DK 7146	Si.18:602

3. OTHER ITEMS FROM MD.—*Contd.*

(a) SEALS—*Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
3056	DK 7416	Si.18:595
3058	DK 7542	Si.18:614
3060	DK 7675	ASI 63.10.27
3063	DK 7799	Si.18:590
3064	DK 7902	Si.20:213
3066	DK 8167	Si.21:214
3067	DK 8310	Si.21:215
3068	DK 8333	Si.21:215
3069	DK 8516	NM 1283
3070	DK 8527	Si.21:217
3072	DK 8695	Si.21:224
3074	DK 9042	Si.20:212
3075	DK 9108	Si.20:212
3078	DK 12146	Si.22:442
3079	DK 12173	Si.22:460
3080	DK 12230	Si.22:442
3081	DK 12279	Si.22:442
3083	DK 12704	Si.22:461
3085	DK 12890	Si.22:460
3086	DK 12929	Si.22:461
3087	DK 12935	Si.22:461
3088	DK 12972	Si.22:459
3089	DK 12985	Si.22:461
3090	DK 13007	Si.22:461
3091	DK(B) 802	Si.26:587
3092	DK(B) 817	Si.26:588
3093	DK(B) 910	Si.26:587
3094	DK(B) 930	Si.26:588
3095	DK(B) 937	Si.26:587
3096	DK(B) 940	Si.26:587
3097	DK(B) 953	Si.26:588
3098	DK(B) 997	Si.26:588
3099	DK(B) 1010	Si.26:587
3100	DK(B) 1082	Si.26:587
3102	DK(B) 1115	Si.26:587
3103	DK(B) 1117	Si.26:588
3104	DK(B) 1135	Si.26:588
3105	DKH 56	Si.22:472
3106	DKi 15	ASI 63.10.56
3107	DKi 60	NM 161
3108	DKi 64	NM 83
3109	DKi 94	ASI 63.10.3
3110	DKi 104	ASI 63.10.37
3111	DKi 175	ASI 63.10.78
3112	DKi 284	NM 88
3113	DKi 399	ASI 63.10.411
3114	DKi 422	ASI 63.10.57
3115	DKi 471	ASI 63.10.120
3116	DKi 670	ASI 63.10.91
3118	DKi 813	ASI 63.10.34

(*Contd.*)

MOHENJODARO — *Contd.*

3. OTHER ITEMS FROM MD. — *Contd.*

(a) SEALS — *Contd*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
3119	DKi 849	ASI 63.10.83
3120	DKi 1049	ASI 63.10.188
3121	DKi 1138	NM 118
3122	DKi 1139	ASI 63.10.149
3123	Dm 121	Si. 8:444
3132	HR 1695(2)	Si. 8:448
3143	Sd 2725	Si.14:194
3144	Sd 2805	Si.14:194
3145	Sd 3177	Si.15:458
3147	Sd 3287	Si.15:459
3151		*ILN* 3.6.1950:p.855
3152		*ILN* 3.6.1950:p.855
3153		*ILN* 3.6.1950:p.855
3154		*ILN* 3.6.1950:p.855
3155		*ILN* 3.6.1950:p.855
3156		*ILN* 3.6.1950:p.855
3157		*Exp.* 9:4(1967):p.34
3158		*Exp.* 9.4(1967):p.35
3159		*Exp.* 9:4(1967):p.35
3160		*Exp.* 9:4(1967):p.35
3161		*Exp.* 9:4(1967):p.36
3162		Si.5:6634
3163		Si.22:461
3164		NM 1299
3165		V.&A.Mus.1.S.8:1951

(b) SEALINGS

3202	C 1083	*ARASI*:1924-25:Pl.XXII-b
3203	DK 1298(2)	Si.9:461
3206	DK 4806(1)	Si.22:454,466
3207	DK 4806(2)	Si.18:625
3209	DK 5136	Si.18:624-25
3213	DK 5793	Si.18:594
3215	DK 6707	Si.18:594,625
3216	DK 6815	Si.18:594,625
3217	DK 7176	Si.18:594
3218	DK 7346	Si.18:594
3219	DK 7730	Si.18:594
3220	DK 7830	Si.18:594,625
3221	DK 9117	ASI
3222	DK 8508	Si.21:216
3223	DK 9193	ASI 63.10.293
3224	DK 10078	Si.22:495,497
3225	DK 10100	ASI 63.10.221
3226	DK 10199	Si.22:467-68
3227	DK 10249	ASI 63.10.339
3228	DK 10257	ASI 63.10.220
3230	DK 11618	GMM
3232	DK 12742	Si.22:467-68
3233	DK 12960	Si.22:467-68

3. OTHER ITEMS FROM MD. — *Contd.*

(b) SEALINGS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
3234	DK(B) 816	Si.26:589-90
3235	DK(B) 960	Si.26:589-90
3236	DKi 1073	ASI 49.251.56
3237	DKi 1134	ASI 49.251.62
3238	HR 3959	Si.12:539
3239	MUS.11	ASI 63.10.343
3242	VS 828	Si.9:3685
3243	VS 1900(2)	ASI 63.10.292
3244		*Exp.*9:4(1967):p.36
3245		*Exp.*9:4(1967):p.37
3246		*Exp.*9:4(1967):p.38
3247		ASI 63.10.399
3248		ASI 63.10.420
3249		NM 1298

(c) POTTERY GRAFFITI

3251		*Exp.*9.4(1967):p.37
3252		*Exp.*9.4(1967):p.37
3253		*Exp.*9:4(1967):p.38

(d) COPPER TABLETS

3301	B 103	ASI 63.10.304
3302	C 2248	ASI 63.10.287
3303	DK 46	NM 45
3304	DK 151	ASI 63.10.308
3305	DK 501	NM 40
3306	DK 1023?	NM 55
3307	DK 1378	Si.12:509-10
3309	DK 1811	ASI 63.10.281
3310	DK 1994	Si.12:509-10
3312	DK 3334	ASI 63.10.261
3313	DK 3352?	ASI 63.10.286
3314	DK 3409	ASI 63.10.267
3315	DK 3447(2)	ASI 63.10.241
3316	DK 3577	NM 48
3317	DK 3694	NM 49
3318	DK 3931	ASI 63.10.284
3319	DK 4067	ASI 63.10.271
3320	DK 4069	ASI 63.10.270
3321	DK 4089	ASI 63.10.421
3322	DK 4225	ASI 63.10.246
3323	DK 4318	NM 47
3325	DK 5093	ASI 63.10.305
3326	DK 5440	ASI 63.10.259
3328	DK 5576	Si.18:637-38
3329	DK 5737?	ASI 63.10.276
3331	DK 7871?	ASI 63.10.243
3332	DK 7874	ASI 63.10.214?
3333	DK 8044	Si.20:192
3334	DK 9015	ASI 63.10.245?

(*Contd.*)

MOHENJODARO — *Contd.*

3. OTHER ITEMS FROM MD. — *Contd.*
(d) COPPER TABLETS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
3335	DK 9152	ASI 63.10.265
3336	DK 9169	ASI 63.10.369?
3337	DK 10045	ASI 63.10.249
3339	DK 10141	ASI 63.10.283
3340	DK 10142	ASI 63.10.290
3341	DK 10146	ASI 63.10.288
3342	DK 10175	ASI 63.10.272
3343	DK 10425	ASI 63.10.258
3344	DK 10596	ASI 63.10.306
3345	DK 10683	ASI 63.10.253
3346	DK 10695	ASI 63.10.263?
3347	DK 10707	ASI 63.10.268
3349	DK 11146	ASI 63.10.264
3350	DK 11287	NM 52
3351	DK 11307	ASI 63.10.262
3352	DK 11499	NM 43
3353	DK 12001	ASI 63.10.266
3354	DK 12223	IMC 10392
3355	DK 12514	ASI 63.10.278
3356	DK 12829	ASI 63.10.407
3357	DKc 153	NM 61
3358	DKi 488?	NM 60
3359	DKi 715	ASI 63.10.248
3360	DKi 726	ASI 63.10.236
3361	DKi 798	ASI 63.10.251
3362	DKi 803	GMM(plaster cast)
3363	DKi 838	NM 56
3364	E 814	ASI 63.10.279
3365	E 825	ASI 63.10.254
3367	E 1246	ASI 63.10.289
3368	E 2181	NM 64
3369	E 2215	ASI 63.10.275
3371	HR 723	Si.9:452
3372	HR 1401	ASI 63:11.1
3373	HR 2676	ASI 63.11.3
3374	HR 2882	Si.12:513-14
3375	HR 3290	ASI 63.11.6
3376	HR 3504	ASI 63.11.5
3378	HR 4615	NM 66
3379	HR 5549?	ASI 63.10.237

3. OTHER ITEMS FROM MD. — *Contd.*
(d) COPPER TABLETS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
3381	L 459	Si.12:513-14
3383	Sd 1200	Si.12:509-10
3384	Sd 1758	Si.12:509-10
3385	Sd 2554	Si.12:511-12
3386	Sd 3009	ASI 63.10.239
3387	Sd 3032	ASI 63.10.269
3388	VS 56	Si.9:452
3390	VS 888	Si.9:452
3391	VS 1104	Si.12:511-12
3392	VS 1900(1)	Si.12:509-10
3393	VS 1959(1)	Si.12:511-12
3395	VS 2360	Si.12:509-10
3396	VS 2432	Si.12:509-10
3398	VS 2590	Si.12:509-10
3401	VS 3504	Si.12:513-14
3403	VS 6058?	ASI 63.10.242
3404		ASI 63.10.256
3405		ASI 63.10.257
3406		ASI 63.10.280
3407		ASI 63.10.291
3410		ASI 63.10.298
3413		ASI 63.10.419
3414		ASI 63.10.422
3415		NM 65
	(e) IVORY RODS	
3501	DK 4115	Si.14:337
3502	DK 6663	Si.18:629
3503	DK 6845	Si.21:227
3504	DK 8350	Si.21:227
3505		*Exp.*9:4(1967):p.38
3506		Si.5:6659
3507		Si.5:6659
3508		Si.5:6659
3509		Si.16:7375
	(f) MISC. OBJECTS	
3510	C 1357	Si.8:433
3511	DK 634	Si.9:461
3512	DK 7103	Si.18:636
3513		Si.21:284

HARAPPA

4. ITEMS IN *EH.* vol.II

REF. NO.	PL. NO.	ITEM NO.
4001 — 4713	LXXXV — CI	1-713 resp.
4714	XCIV	365-a
4715		366-a
4716		367-a
4717	XCV	385-a

4. ITEMS IN *EH.* vol.II — *Contd.*

REF. NO.	PL. NO.	ITEM NO.
4718	XCV	409-a
4801 — 4884	CII — CIV	1-84 resp.
4901	CXXII	5
4902	CXXIII	16
4905	CXXV	21

(*Contd.*)

HARAPPA — *Contd.*

5. OTHER ITEMS FROM HP.
(a) SEALS

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
5001	A 34	*ARASI*:1923-24:Pl.XIX.20
5003	A(a) 30	*ARASI*:1923-24:Pl.XIX.14
5006	Af 26	Pu.32:529
5010	P-IV 19	Pu.32:529
5016	600	ASI 63.11.239
5017	1080	Pu.36:3884
5023	2335	Pu.36:3891
5031	2812	Pu.36:3891
5034	3476	Pu.36:3891
5035	3523	Pu.37:696
5046	11442	ASI 63.11.170
5051	12784	*ARASI*:1934-35:Pl.X.19
5052	12881	*ARASI*:1934-35:Pl.X.11
5054	12951	*ARASI*:1934-35:Pl.X.8
5055	12995	*ARASI*:1934-35:Pl.X.2
5056	13341	ASI 63.11.176
5057	13418	ASI 63.11.185
5058	13487	*ARASI*:1934-35:Pl.X.12
5059	13529	Pu.61:4075
5060	13537	Pu.61:4075
5061	13557	Pu.61:4076
5062	13563	Pu.61:4075
5063	13613	Pu.61:4075
5064	13632	Pu.61:4075
5065	13645	Pu.61:4075
5066	13678	Pu.61:4075
5067	13686	Pu.61:4076
5068	13690	Pu.61:4075
5069	13692	Pu.61:4076
5070	13721	Pu.61:4075
5071	13722	Pu.61:4075
5072	13737	Pu.61:4076
5073	13751	Pu.61:4075
5074	13762	Pu.61:4076
5076	13788	Pu.61:4075
5077	13795	Pu.61:4075
5078	13796	Pu.61:4076
5080	13857	Pu.61:4075
5081	13987	Pu.61:4075
5083	14157	Pu.63:4388
5084		*ASIR*:1872-73:Pl.XXIII:1
5085		*IA*:Vol.XV(1886):p.1.Fig.2
5086		*JRAS*:1912:p.700:Fig.C
5087		*CHI* vol.I:Pl.XI.22
5088		*CHI* vol.I:Pl.XI.23
5089		*ARASI*:1920-21: Pl.XIII-b
5090		*ARASI*:1934-35:Pl.X.1
5091		*ARASI*:1934-35:Pl.X.3
5092		*ARASI*:1934-35:Pl.X.4
5093		*ARASI*:1934-35:Pl.X.5
5094		*ARASI*:1934-35:Pl.X.6
5096		*ARASI*:1934-35:Pl.X.10
5099		*ARASI*:1934-35:Pl.X.18
5100		*ARASI*:1934-35:Pl.X.20
5101		*AI*:3(1947):Pl.LII.B.2
5102		Pu.26:I.103
5103		Pu.32:534
5104		Pu.37:665
5105		Pu.50:3004
5107		Pu.55:3253
5108		Pu.55:3253
5109		Pu.55:3253
5110		Pu.55:3253
5114		Pu.63:4388
5115		Pu.63:4388
5119		ASI 63.11.171
5120		ASI 63.11.197
5123		Ash.Mus.1956-1001
5124		Ash.Mus.1956-1000

(b) SEALINGS

5201	Ab 50	Pu.37:700
5203	Ab 707	Pu.32:529
5204	Af 18	Pu.37:700
5205	Af 29	Pu.37:699
5206	B 12(1)	Pu.32:529
5207	G 8(1)	ASI 63.11.154
5208	G 8(2)	ASI 63.11.166
5209	G 58	ASI 63.11.155
5210	G 80	NM 182
5211	G 113	IMC:A.8079
5212	G 256(2)	ASI 63.11.159
5213	G 256(3)	ASI 63.11.160
5214	G 256(4)	ASI 63.11.161
5215	G256(5)	ASI 63.11.162
5216	G 256(6)	ASI 63.11.163
5217	G 256(7)	ASI 63.11.164
5218	G 256(8)	ASI 63.11.165
5219	G 256(9)	NM 183
5220	G 256(10)	IMC:A.21199
5221	G 292	NM 1293
5222	J 533	Pu.41:4389
5223	385	Pu.35:3865-66
5225	470(a)(2)	Pu.36:3892
5226	615	Pu.35:3861
5227	768	Pu.35:3849-50
5228	1010	Pu.35:3865-66
5229	1123	NM 29

(*Contd.*)

HARAPPA — *Contd.*

5. OTHER ITEMS FROM HP. — *Contd.*
(b) SEALINGS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
5230	1236?	Pu.37:699
5231	1338	Pu.35:3861
5232	1339	Pu.35:3861
5233	1416	Pu.37:700
5234	1459?	Pu.35:3849-50
5235	1517	Pu.37:700
5236	1615	ASI 63.10.288
5237	1646(2)	Pu.35:3851-52
5238	1646(3)	Pu.35:3851-52
5239	1646(4)	Pu.35:3851-52
5240	1646(5)	Pu.35:3851-52
5241	1646(6)	Pu.35:3851-52
5242	1661	Pu.37:699
5243	1791(1)	Pu.35:3853
5244	1791(2)	Pu.35.3853
5245	1991	Pu.35:3855
5246	2403	Pu.37:699
5249	2866?	Pu.35:3849-50
5250	2900	Pu.35:3865-66
5251	2982	Pu.35:3855
5252	2993	Pu.35:3862
5253	3429	ASI 63.10.138
5254	3581(1)	Pu.35:3856
5255	3608	Pu.35:3855
5256	4261	Pu.39:4163-64
5257	4411	Pu.39:4165-66
5259	5388	Pu.39:4162
5260	7055	Pu.39:4165-66
5261	7537	Pu.39:4162
5262	9529	NM 37
5263	10645	Pu.44:4664
5264	10965	Pu.44:4664
5265	11583	NM 38
5266	11626	Pu. 45:4872
5267	11773	NM 1294
5268	12906	*ARASI*:1934-35:Pl.X.21
5269	12952	Pu.55:3254-55
5270	13011	Pu.55:3254-55
5271	13155	Pu.55:3254-55
5274	13419	ASI
5275	13545	Pu.61:4077-78
5276	13546	Pu.61:4077-78
5277	13556	Pu.61:4077-78
5278	13564	Pu.61:4077-78
5279	13591	Pu.61:4077-78
5280	13633	Pu.61:4077-78
5281	13635	Pu.61:4077-78
5282	13668?	Pu.61:4077-78
5283	13689	Pu.61:4077-78
5284	13709	Pu.61:4077-78

5. OTHER ITEMS FROM HP. — *Contd.*
(b) SEALINGS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
5285	13742	Pu.61:4077-78
5286	13752	Pu.61:4077-78
5287	13753	Pu.61:4077-78
5288	13775	Pu.61:4077-78
5289	13805	Pu.61:4077-78
5291	13892	Pu.61:4077-78
5292	13968	Pu.61:4077-78
5293	14063	ASI 63.11.187
5296	14333	ASI 63.11.191
5297	14350	ASI 63.11.189
5298	14363	Pu.65:4467
5299		*ARASI*:1934-35:Pl.X.13
5300		*ARASI*:1934-35:Pl.X.15
5301		*ARASI*:1934-35:Pl.X.16
5302		*ARASI*:1934-35:Pl.X.24
5303		*ARASI*:1934-35:Pl.X.25
5304		*AI*:3(1947):Pl.L.A.
5305		*AI*:3(1947):Pl.LII.B.1
5306		Pu.21:1741
5308		Pu.32:534
5309		Pu.39:4162
5310		Pu.41:4389
5311		Pu.41:4389
5312		Pu.41:4503
5313		Pu.41:4503
5314		Pu.41:4503
5315		Pu.41:4503
5316		Pu.41:4503
5317		Pu.44:4664
5318		Pu.45:4876
5319		Pu.55:3254-55
5320		Pu.55:3254-55
5321		Pu.55:3254-55
5322		Pu.55:3254-55
5323		Pu.55:3254-55
5324		Pu.55:3254-55
5325		Pu.55:3254-55
5326		Pu.63:4394-95
5327		Pu.63:4394-95
5328		Pu.63:4394-95
5329		Pu.63:4394-95
5331		ASI 49.255.210
5332		ASI 49.255.212(1)
5333		ASI 49.255.212(2)
5334		ASI 49.255.213
5335		ASI 49.255.216
5336		ASI 49.255.218
5337		ASI 49.255.219
5339		ASI 49.255.225
5340		ASI 63.11.33

(*Contd.*)

HARAPPA — *Contd.*

5. OTHER ITEMS FROM HP. — *Contd.*
(b) SEALINGS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
5341	H 61	ASI

(c) MINIATURE TABLETS

5401	J 235	ASI 63.11.129
5402	J 575	ASI 63.11.128
5403	27	Pu.37:699
5404	1241	Pu.36:3891
5405	1242	Pu.35-36:3870-71
5406	1254	Pu.37:698
5407	1260(1)	Pu.35:3867-69
5408	1260(2)	Pu.37:697
5409	1262	Pu.35:3867-69
5410	1263	Pu.35-36:3870-71
5411	1264	Pu.35:3867-69
5412	1277	Pu.35:3867-69
5413	1279?	Pu.35:3867-69
5414	1281	Pu.35:3867-69
5415	1347	Pu.35:3867-69
5416	1348	Pu.35:3867-69
5417	1433	Pu.35-36:3870-71
5418	1963	Pu.35-36:3870-71
5419	2056(1)	Pu.35-36:3870-71
5420	2124	Pu.35-36:3870-71
5421	2356	Pu.35-36:3870-71
5422	2357	Pu.35-36:3870-71
5423	2366	Pu.35-36:3870-71
5425	2480	Pu.35-36:3870-71
5426	2483	Pu.35-36:3870-71
5427	2569	Pu.35-36:3870-71
5428	2570(3)	Pu.37:698
5429	2631	Pu.37:698
5430	2632(2)	Pu.35-36:3870-71
5431	2645	Pu.35-36:3870-71
5432	2648	Pu.35-36:3870-71
5433	2649	Pu.37:697
5434	2894	Pu.35:3867-69
5436	2897	Pu.35-36:3870-71
5437	2917	Pu.35:3867-69
5438	2918	Pu.35-36:3870-71
5440	3024(1)?	Pu.35-36:3870-71
5441	3024(2)	Pu.37:697
5442	3025	ASI 63.11.230
5443	3026	Pu.35-36:3870-71
5444	3027(2)	Pu.35:3863
5446	3062	Pu.35-36:3870-71
5447	3091	Pu.35-36:3870-71
5449	3172	Pu.35-36:3870-71
5450	3173	Pu.35-36:3870-71
5451	3266	Pu.35-36:3870-71
5452	3286	Pu.36:3872-73

5. OTHER ITEMS FROM HP. — *Contd.*
(c) MINIATURE TABLETS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
5453	3341	Pu.35:3867-69
5454	3399(1)	Pu.37:697
5455	3399(2)	Pu.37:697
5456	3399(3)	Pu.37:697
5457	3509	Pu.35:3867-69
5458	3535	Pu.37:697
5459	3791	Pu.35-36:3870-71
5460	8650-C(3)	Pu.41:4395
5461	8650-C(4)	Pu.41:4395
5462	8650-h	ASI 63.11.90
5463	10086(2)	Pu.41:4395
5464	10185-C	ASI 63.11.80
5466	11371(2)	ASI 63.11.143
5467	11372	ASI 63.11.91
5469	12534(2)	*ARASI*:1930-34: Pl.XXXII-e.20
5470	12574	*ARASI*:1930-34: Pl.XXXII-e.1
5471	13030	*ARASI*:1934-35:Pl.X.23
5472	13074	ASI 63.11.210
5473	13177	Pu.55:3254-55
5474	13270	ASI 63.11.183
5475	13280	ASI 63.11.179
5476	13508	Pu.55:3254-55
5477	13592	Pu.61:4076
5478	13710	Pu.61:4076
5479	13823	Pu.61:4076
5480	13833	Pu.61:4076
5481	13942	Pu.61:4076
5482	13986	Pu.61:4076
5483		*ARASI*:1934-35:Pl.X.22
5484		*ARASI*:1934-35:Pl.X.26
5485		Pu.45:4874
5486		Pu.45:4874
5487		Pu.50:2999
5488		Pu.50:2999
5489		Pu.50:3004
5490		Pu.53:3055-58
5492		Pu.55:3254-55
5494		Pu.55:3254-55
5495		Pu.63:4394-95
5496		ASI 49.255.21
5497		ASI 49.255.199
5498		ASI 49.255.200
5499		ASI 63.11.131

(d) POTTERY GRAFFITI

5501	1460(1)	Pu.36:3892
5504	13956	Pu.61:4081
5505	13958	Pu.61:4081

(*Contd.*)

HARAPPA — *Contd.*

5. OTHER ITEMS FROM HP. — *Contd.*
(d) POTTERY GRAFFITI — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
5506	13960	Pu.61:4081
5507		*AI*:3(1947):Pl.XLVIII.1
5508		*AI*:3(1947):Pl.XLVIII.2
5510		*AI*:3(1947):Pl.XLVIII.4
5511		*AI*:3(1947):Pl.XLVIII.5
5513		*AI*:3(1947):Pl.XLIX.1
5514		*AI*:3(1947):Pl.XLIX.2
5515		*AI*:3(1947):Pl.XLIX.3
5516		*AI*:3(1947):Pl.XLIX.4
5517		*AI*:3(1947):Pl.XLIX.5
5518		*AI*:3(1947):Pl.XLIX.6
5519		*AI*:3(1947):Pl.XLIX.7

(e) BRONZE IMPLEMENTS

5601	277a/3	Pu.36:3899-900

6. CHANHUDARO

(a) ITEMS IN *CE*

REF. NO.	PL. NO.	ITEM NO.
6104 — 6133	LI	4-33 resp.
6201 — 6235	LII	1-35 resp.
6301	XXXIV	3
6303	XXXVIII	2
6304		3
6305	XXXVIII	5
6306	LXXIV	1

(b) OTHER ITEMS FROM CD.

6402	CH 248	*ES*.Pl.XVII:38
6403	CH 372	*ES*.Pl.XVII:44
6405	1801	ASI 63.12.7

7. LOTHAL

(a) SEALS

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
7001	400	*IAR*:1954-55:Pl.XV.B
7002	407	*IAR*:1954-55:Pl.XV.B
7004	769	*IAR*:1954-55:Pl.XV.B
7005	989	*IAR*:1955-56:Pl.IX.B
7006	1123	ASI:WC
7007	1258	ASI:WC
7008	1758(1)	*IAR*:1955-56:Pl.IX.A
7009	1758(2)	ASI:WC
7011	1938	*LIC*:Pl.XL.4
7013	2762	*IAR*:1956-57:Pl.XIV.H
7015	3017	*IAR*:1956-57:Pl.XIV.A
7016	3062	ASI:WC
7017	3269	*IAR*:1956-57:Pl.XIV.E
7018	3453	ASI:WC
7019	3658	ASI:WC
7020	3870	*IAR*:1956-57:Pl.XIV.G
7021	4133	*IAR*:1956-57:Pl.XIV.F
7022	4261	ASI:WC
7023	4346	*LIC*:Pl.XL.5
7024	4362	*IAR*:1956-57:Pl.XIV.B
7025	4829	*IAR*:1956-57:Pl.XIV.D
7026	4879	*ICWC*:Pl.17.1
7027	5008	ASI:WC
7028	5040	*IAR*:1956-57:Pl.XIV.C
7029	5094	*LIC*:Pl.XXXIX.D
7030	5262	ASI:WC
7031	5321	ASI:WC
7032	5336	NM
7034	5397	ASI:WC
7035	5450	*ICWC*:Pl.17.4
7036	5617	ASI:WC
7038	5958	NM
7039	6022	ASI:WC
7040	6047	ASI:WC
7042	6184	*IAR*:1957-58:Pl.XIX.B
7043	6425	*IAR*:1957-58:Pl.XIX.B
7044	6492	*IAR*:1957-58:Pl.XIX.B
7045	6726	*IAR*:1957-58:Pl.XIX.B
7046	6947	*IAR*:1957-58:Pl.XIX.B
7047	7341(1)	*IAR*:1957-58:Pl.XX.6

(*Contd.*)

7. LOTHAL — *Contd.*

(a) SEALS — *Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
7048	7341(2)	ASI:WC
7049	8736	ASI:WC
7050	8767	ASI:WC
7053	9675	*IAR*:1959-60:Pl.XVI.B
7054	9716	ASI:WC
7055	9989	*IAR*:1962-63:Pl.XVI.D
7056	10924	*IAR*:1957-58:Pl.XX.7
7057	11358	*IAR*:1957-58:Pl.XX.3
7062	12341	*IAR*:1959-60:Pl.XVI.B
7063	12923	ASI:WC
7064	13004	ASI:WC
7065	13017	ASI:WC
7066	13338	ASI:WC
7068	13732	*IAR*:1962-63:Pl.XVI.C
7069	13774	*IAR*:1957-58:Pl.XX.1
7070	13931	*IAR*:1958-59:Pl.XVIII.A
7072	13994	*IAR*:1958-59:Pl.XVIII.A
7073	14370	ASI:WC
7074	14371	ASI:WC
7075	14444	*IAR*:1958-59:Pl.XVIII.A
7076	14865	ASI:WC
7077	14975	ASI:WC
7078	14976	ASI:WC
7080	15163	*IAR*:1959-60:Pl.XVI.B
7081	15164	*IAR*:1959-60:Pl.XVI.B
7082	15263	*LIC*:Pl.XL.6
7085	15287	ASI:WC
7086	15288(1)	*LK*:11(1962):Fig.69.3
7088	15294	Bar.Mus.166
7089	15333	ASI:WC
7090	15337	ASI:WC
7092	15462	*IAR*:1961-62:Pl.XXI.A
7093	15976	ASI:WC
7094	16767	*IAR*:1961-62:Pl.XXI.A
7095	16845	ASI:WC
7096	16883	*IAR*:1961-62:Pl.XXI.A
7097	17127	ASI:WC
7098	17171	ASI:WC
7099	17199	ASI:WC
7100	17312	ASI:WC
7101	17328	*IAR*:1961-62:Pl.XXI.A
7102	17369	*IAR*:1961-62:Pl.XXI.A
7103	17371	*IAR*:1962-63:Pl.XVI.B
7104	17372	*IAR*:1962-63:Pl.XVI.B
7105	17373	*IAR*:1962-63:Pl.XVI.B
7106	17374	ASI:WC
7107		*LIC*:Pl.XXV.B.2
7111		ASI:WC
7112		ASI:WC

(b) SEALINGS

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
7201	722	*IAR*:1954-55:Pl.XV.B
7202	800	*IAR*:1954-55:Pl.XV.B
7203	1759	ASI:WC
7204	1809	*IAR*:1955-56:Pl.IX.C
7205	1830	*IAR*:1955-56:Pl.IX.C
7206	1831	*IAR*:1955-56:Pl.IX.C
7207	1832	ASI:WC
7209	1834	ASI:WC
7211	1844	ASI:WC
7212	1838	ASI:WC
7213	1839	ASI:WC
7214	1841	ASI:WC
7215	1842	ASI:WC
7216	1843	ASI:WC
7217	1845	*LK*:3-4(1956-57): Pl.XXXII.16
7218	1846	ASI:WC
7219	1847	ASI:WC
7220	1848	ASI:WC
7221	1850	ASI:WC
7222	1851	ASI:WC
7223	1852	ASI:WC
7224	1853	ASI:WC
7225	1854	*IAR*:1955-56:Pl.IX.C
7227	1857	ASI:WC
7228	1861	ASI:WC
7229	1863	ASI:WC
7230	1864	ASI:WC
7231	1865	ASI:WC
7232	1866	ASI:WC
7233	1867	ASI:WC
7234	1868	Bar.Mus.167
7235	1869	ASI:WC
7236	1870	*ICWC*:Pl.16.2
7237	1871	ASI:WC
7238	1872	ASI:WC
7239	1873	ASI:WC
7240	1874	ASI:WC
7241	1876	*IAR*:1955-56:Pl.IX.C
7242	1877	ASI:WC
7243	1878	*LIC*:p.91:Fig.21.18
7244	1879	ASI:WC
7245	1880	ASI:WC
7246	1881	ASI:WC
7247	1882	ASI:WC
7248	1883	*LK*:3-4(1956-57): Pl.XXXII.15
7249	1884	*LIC*:Pl.XXVI.F
7251	1886	ASI:WC

(*Contd.*)

7. LOTHAL—*Contd.*

(b) SEALINGS—*Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
7252	1887	ASI:WC
7253	1888	ASI:WC
7255	1891	ASI:WC
7257	1926	*IAR*:1955-56:Pl.IX.C
7258	1927	ASI:WC
7259	1931	ASI:WC
7260	1938	ASI:WC
7261	1983	ASI:WC
7262	1990	ASI:WC
7263	2059	ASI:WC
7265	2077	*IAR*:1955-56:Pl.IX.C
7266	2093	ASI:WC
7267	2228	ASI:WC
7268	2376	ASI:WC
7269	2420	ASI:WC
7270	2498	ASI:WC
7271	3282	ASI:WC
7272	3466	ASI:WC
7273	4302	ASI:WC
7274	6742	*IAR*:1957-58:Pl.XIX.B
7275	8737	*LIC*:Pl.XXVI.F
7277	10742	*IAR*:1957-58:Pl.XX(2)
7278	13051	*IAR*:1958-59:Pl.XVIII.B
7279	13191	*IAR*:1959-60:Pl.XVI.D
7280	13881	ASI:WC
7281	14366	ASI:WC
7282	15348	*IAR*:1961-62:Pl.XXI.C
7283	16912	*IAR*:1961-62:Pl.XXI.C

(c) POTTERY GRAFFITI

7301		*IAR*:1957-58:Pl.XX(4)

8. KALIBANGAN

(a) SEALS

8001	288	ASI 68.1.5
8002	343	*IAR*:1960-61:Pl.XLVIII.A
8003	435	*IAR*:1962-63:Pl.LXII.C
8004	885	ASI 68.1.6
8006	2247	*IAR*:1961-62:Pl.LXIX.B
8007	2248	ASI 68.1.68
8008	2249(1)	*IAR*:1963-64:Pl.XXIII.A
8009	2249(2)	*IAR*:1961-62:Pl.LXVIII.B
8011	5059	*IAR*:1962-63:Pl.LXII.C
8012	5441	*IAR*:1962-63:Pl.LXII.C
8013	5617(1)	*IAR*:1962-63:Pl.LXII.C
8015	6236	*IAR*:1962-63:Pl.LXII.C
8016	7295(1)	*IAR*:1963-64:Pl.XXIII.A
8017	7295(2)	*IAR*:1962-63:Pl.LXII.C
8018	8219	ASI 68.1.48
8019	9087	*IAR*:1963-64:Pl.XXIII.A
8020	9434	*IAR*:1963-64:Pl.XXIII.A
8021	9435	*IAR*:1963-64:Pl.XXIII.A
8022	9631	*IAR*:1963-64:Pl.XXIII.A
8023	9734(1)	*IAR*:1963-64:Pl.XXIII.A
8024	9734(2)	*IAR*:1963-64:Pl.XXIII.B
8025	11222	*IAR*:1963-64:Pl.XXIII.A
8026	12349	*Exp*.17:2(1975):p.28,Fig.1
8027	12870	ASI 68.1.78
8029	14507	ASI 68.1.36
8030	14570	ASI 68.1.49
8031	14982	*PT*:7(1974):Pl.V.C
8033	16037	ASI 68.1.53
8034	16052	ASI 68.1.1
8035	16067	ASI 68.1.19
8036	16093	*Exp*.17:2(1975):p.28,Fig.1
8037	16174	ASI 68.1.10
8038	16945	ASI 68.1.35
8039	16947	*Exp*.17:2(1975):p.28,Fig.1
8040	17574	ASI 68.1.4
8041	17658	ASI 68.1.9
8042	17729	*Exp*.17:2(1975):p.28,Fig.1
8043	17730	ASI 68.1.12
8044	17731	ASI 68.1.22
8045	17800	ASI 68.1.21
8047	18092	ASI 68.1.17
8048	18150(1)	*Exp*.17:2(1975):p.28,Fig.1
8050	18257(1)	*IAR*:1963-64:Pl.XXIII.A
8051	18257(2)	ASI 68.1.60
8052	18597	ASI 68.1.23
8053	18760	ASI 68.1.63
8054	19360	ASI 68.1.51
8055	19400	ASI 68.1.34
8056	19629	ASI 68.1.38
8058	21503	ASI 68.1.73
8059	21504	ASI 68.1.72
8060		*IAR*:1960-61:Pl.XLVIII.A
8061		*IAR*:1960-61:Pl.XLVIII.A
8062		*IAR*:1961-62:Pl.LXIX.B
8071		*ASH*:No.273
8072		ASI:WC

(*Contd.*)

8. KALIBANGAN—*Contd.*

(b) SEALINGS

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
8101	868	ASI 68.1.76
8102	976	*IAR*:1961-62:Pl.LXIX.A
8103	3712	ASI 68.1.69
8104	3844	*IAR*:1961-62:Pl.LXIX.A
8105	5105	ASI 68.1.65
8106	11024	*IAR*:1960-61:Pl.XLVIII.B
8108	16047	*Exp*.17:2(1975):p.29,Fig.2
8109	16060	ASI 68.1.26
8110	16946	ASI 68.1.16
8111	17780	ASI 68.1.31
8112	18352	ASI 68.1.28
8113	18705	ASI 68.1.56
8114	19085	*Exp*.17:2(1975):p.29,Fig.2
8115	19182	ASI 68.1.29
8116	19348	ASI 68.1.57
8117	19527	ASI 68.1.47
8118	21425	ASI 68.1.74
8119	21505	ASI 68.1.82
8120	17892	*Exp*.17:2(1975):p.29,Fig.2
8121		*Exp*.17:2(1975):p.29,Fig.2
8122		KB.1:99/61

(c) POTTERY GRAFFITI

8201	2A-2	KB.1:2/63

(c) POTTERY GRAFFITI—*Contd.*

REF. NO.	EXC. NO.	PUBL., PH. OR MUS. NO.
8202	2C(2)	ASI
8204		*IAR*:1960-61:Pl.XLIX.A
8205		*IAR*:1960-61:Pl.XLIX.A
8206		*IAR*:1960-61:Pl.XLIX.A
8207		*IAR*:1960-61:Pl.XLIX.A
8208		*IAR*:1960-61:Pl.XLIX.A
8209		*IAR*:1960-61:Pl.XLIX.A
8210		*IAR*:1960-61:Pl.XLIX.A
8211		*IAR*:1960-61:Pl.XLIX.A
8212		*IAR*:1960-61:Pl.XLIX.A
8213		*IAR*:1960-61:Pl.XLIX.A
8214		*IAR*:1963-64:p.38,Fig.10
8215		KB.1:82/61
8216		*PT*:7(1974):Pl.VI.B
8217		*PT*:7(1974):Pl.VI.B
8218		*PT*:7(1974):Pl.VI.B
8219		NM 3000
8220		NM 12871
8221		*PT*:1(1967-68):Pl.I

(d) BRONZE IMPLEMENTS

8301	14983	*Exp*.17:2(1975):p.30,Fig.1
8302	16948	*Exp*.17:2(1975):p.30,Fig.1

9a. OTHER SITES

REF. NO.	SITE	PUBL., PH. OR MUS. NO.
9001	Jhukar	*ES*:Pl.XVII:1
9011	Lohumjodaro	*ES*:Pl.XXXIII:8
9021	Rupar	*IAR*:1953-54:Pl.VI.B
9022	Rupar	*ARM*:Pl.II.A
9031	Tarkhana-wala Dera	MP.1:397/53
9041	Rojdi	*IAR*:1957-58:Fig.10A(1)
9042	Rojdi	*IAR*:1957-58:Fig.10A(2)
9051	Kot Diji	*KD*:p.6:Fig.2
9061	Alamgirpur	*IAR*:1958-59:Pl.LXV.A
9062	Alamgirpur	*IAR*:1958-59:Pl.LXV.A
9063	Alamgirpur	*IAR*:1958-59:Pl.LXV.A
9071	Desalpar	*IAR*:1963-64:Pl.VIII.B
9073	Desalpar	*IAR*:1963-64:Pl.VIII.C
9084	Amri	*FA*:Vol.II:Fig.90.466
9085	Amri	*FA*:Vol.II:Fig.90.467
9091	Surkotada	*IAR*:1971-72:Pl.XXX.D
9092	Surkotada	*IAR*:1971-72:Pl.XXX.E
9093	Surkotada	*IAR*:1971-72:Pl.XXX.C
9094	Surkotada	*IAR*:1971-72:Pl.XXX.C
9095	Surkotada	*IAR*:1971-72:Pl.XXX.C
9101	Chandigarh	*PT*:6(1972-73):Pl.I.1
9102	Chandigarh	*PT*:6(1972-73):Pl.I.2
9103	Chandigarh	*PT*:6(1972-73):Pl.I.3
9104	Chandigarh	*PT*:6(1972-73):Pl.I.4
9111	Rakhigadhi	*AO*:35(1973):p.103
9121	Dholavira	*BBM*:XXV(1973-74): Pl.XI.1
9201	Banawali	DAH
9202	Banawali	DAH
9203	Banawali	DAH
9204	Banawali	DAH
9205	Banawali	DAH
9211	Banawali	DAH
9221	Banawali	DAH
9701	Unknown prov.	NM 35/35

(*Contd.*)

9b. WEST ASIAN FINDS

REF. NO.	SITE	PUBL., PH. OR MUS. NO.
9801	Susa	*CCO*:vol.I:Pl.XXV.15
9811	Djoka (Umma)	*RA*:XXII(1925):p.56
9821	Kish	*JRAS*:1925:p.698:Pl.X
9822	Kish	*JRAS*:1931:p.595:Fig.B
9832	Ur	*PBA*:18(1932): p.191:No.2
9833	Ur	*PBA*:18(1932): p.191:No.3
9834	Ur	*PBA*:18(1932): p.191:No.4
9842	Ur	*PBA*:18(1932): p.191:No.12
9845	Ur	*PBA*:18(1932): p.191:No.15
9846	Ur	*PBA*:18(1932): p.191:No.16
9851	Telloh	*RA*:XXII(1925):p.99
9852	Telloh	*CCO*:vol.I:Pl.II.8
9901	prob.WA.	*PBA*:18(1932): p.191:No.17
9902	prob.WA.	*PBA*:18(1932): p.191:No.18
9903	prob.WA.	*JRAS*:1932:p.48
9904	prob.WA.	*AOS*:Pl.III.23
9905	prob.WA.	*Iraq*: III(1936):p.101.Fig.1

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